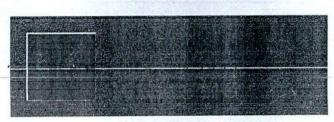


Volume I Final Detailed Project Report for

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City



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CHAPTER 1 INTRODUCTION

1.1 Background

- 1.1.1 The conversion of Sri Kempegowda's 16th Century "Garden City" Bangalore to today's "Silicon Valley" has been rapid. The City has grown from 21 Sqkm. in 1897 to 800 Sqkm. in 2007. The Capital of Karnataka, Bengaluru, is the Fifth Largest City in the Country is the perfect blend of natural beauty and man made marvels of architecture and technology. The City is the second fastest growing city in the world after Mexico City and the fastest growing city in Asia.
- 1.1.2 Bengaluru is growing at a rate, which is significantly higher than that of others. Due to the Growth in Economic Activities, the City is attracting migrants. To serve this Influx of Population, Residential Layouts are being developed. But adequate Transport Infrastructure Facilities such as Roads, Grade Separators, Subways, Mass Transit System, etc. to match this demand are conspicuously absent. The additional demand is to be catered by the already Saturated Road Network. Due to the Inherent Road Network in Bangalore, there are on the average 2 Major and 2 Minor Junctions per kilometer of Road Length. This has resulted in increase in Travel Time due to frequent Bottlenecks and Breakdowns.
- 1.1.3 The Urban Form of Bengaluru is characterized by a Radio Concentric System structured by Ring Roads, Five Major Radial Roads and Five Secondary Radial Roads. The Five Major Radial Roads are Mysore Road (SH 17) in the South / South West, Old Madras Road (NH 4) in the North / North East, Bellary Road in the North, Hosur Road (NH 7) in the South East and Tumkur Road in the North West. Similarly, the Five Secondary Radial Roads include Magadi Road (SH 17E) in the West, Kanakapura Road (NH 209) in the South, Bannerghatta Road (SH 87) in the South, Varthur Road and Whitefield Road (SH 35) in the East. The differentiated development of the City based on Geographical Sectors and the Star like Growth Array along the Major Roads, mark the change from a Concentric Spatial Growth to a Sectorial and Linear Radial Development.
- 1.1.4 The Estimated Population of BBMP's 198 Wards as per the 2011 Census is 84.74 Lakh, up from 45.92 Lakh in 2001 and 24.75 Lakh in 1981. The extent of Developed Area has also increased considerably, in 1971 the Area was 174.7 Sq. km. and today it is about 800 Sq. km. In absence of Adequate Mass Transportation System, the use of personal motor vehicles for intra city travel has increased substantially. This has resulted in growth of motor vehicles, which is eight times the rate of population growth in the last two decades (1.91 Lakh vehicles in 1981 and 38.86 Lakh vehicles in 2011). The Public Transport System (Bus) is overstressed carrying about 50 Lakh Commuters on a daily basis. Congested Streets and Longer Route Length due to Urban Sprawl have only served to reduce Bus Frequencies further.
- 1.1.5 The combined effect of all these on the Road Network of Bengaluru is Delay and Congestion beyond Tolerable Limits. Vehicular Conflicts at the Intersections are being eliminated by Traffic Signals but at the Expense of Delays and Long Queues. The Peak Hour has spread over a longer period of time, since there are no Perceptible Capacity Augmentation Conflict." Reduction Measures. Traffic related Problems have become Regular Phenomena on Bangalore Roads, due to the Vast Developments. This fact is substantiated by the Traffic Study Results

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Jayamahal Road, which starts from Mehkri Circle on the western side and ends near Jayamahal Palace Hotel or more precisely near the Road under Bridge of Cantonment Railway Station on the eastern side, acts as an important link, in the northern part of the City, between the Cantonment Area of Bengaluru City and Bellary Road (AH – 47). It spans for a length of about 2.7km and passes through many of the prominent and well known establishments of Silicon City of India such as Bangalore Palace, Dooradarshan Kendra, Fun World, Snow City, KC Palace Club, Chamundi Hotel, Ministers' Residences, Jayamahal Palace Hotel, etc. While travelling through this Corridor one can find the old charm of our Garden City viz. lush greeneries.

On the other hand, after the opening of Kempegowda International Airport in Devanahalli in May 2008, the Bellary Road (AH – 47), the North Corridor of Bengaluru City, has become the most happening place of this Cosmopolitan City Bengaluru. With the boom in Real Estate Activities in and around this Corridor, the Vehicular Traffic along this Corridor has increased manifold. In fact, all the Business Eyes are focused on this Corridor due to its proximity to Bengaluru International Airport. This Corridor takes care of both Intercity and Intracity Vehicular Movement. This Corridor connects many centrally located Government Offices like Vidhana Soudha, Vikasa Soudha, Karnataka High Court, etc. with Kempegowda International Airport, Chikkaballapur, Doddaballapur, Hyderabad, etc.

This Project proposes Widening of Bellary Road from B. D. A. Junction on the southern side to Mehkri Circle on the northern side by covering a length of about 1475m.

The Project has been taken up for the following reasons.

- The Revised Master Plan (RMP) 2015, Bangalore emphasizes to widen Jayamahal Road to 45m from Ch: 0m to 900m (from Mehkri Circle to the Start of CIL Road Junction) and 30m from Ch: 1000m to 2600m (from the End of CIL Road Junction to the Start of Approach Ramp of Road under Bridge near Cantonment Railway Station) and Bellary Road to 45m from Ch: 0m to 1475m (from B. D. A. Junction to the Start of Approach Ramp to Underpass at Mehkri Circle).
- To augment the Capacity of the Corridors.
- To increase the Carriageway Width and thereby infuse Lane Discipline into the Vehicle Users using Jayamahal Road and Bellary Road.

Key Plans of the Project Corridors proposed for Widening are enclosed in Annexure A.1.1.

Further, care has been taken to design the Alignment Plans of both the Corridors in such a way that significant numbers of trees (near Guttahalli Circle in case of Bellary Road; from Ch: 0m to 850m i.e. from Mehkri Circle to the Start of CIL Road Junction in case of Jayamahal Road and in the acquired Palace Property in case of both the Corridors) can be retained along both the Corridors by creating Tree Island, which also will function has Carriageway Divider.

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Annexure A.1.1 Key Plans of Project Corridors

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Chapter 2
Objectives and Scope of Study

Chapter 2 - Objectives and Scope of Study

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CHAPTER 2 OBJECTIVES AND SCOPE OF STUDY

2.1 **Objectives**

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The Project has been taken up to increase the Carriageway Width and thereby augment Vehicle Carrying Capacity of both the Project Corridors namely Jayamahal Road and Bellary Road. Further, the Revised Master Plan (RMP) 2015, Bangalore emphasizes to widen Jayamahal Road to 45m from Ch: 0m to 900m (from Mehkri Circle to the Start of CIL Road Junction) and 30m from Ch: 1000m to 2600m (from the End of CIL Road Junction to the Start of Approach Ramp of Road under Bridge near Cantonment Railway Station) and Bellary Road to 45m from Ch: 0m to 1475m (from B. D. A. Junction to the Start of Approach Ramp of Underpass at Mehkri Circle).

The Study Area spans between Mehkri Circle on the western side and Start of Approach Ramp of Road under Bridge near Cantonment Railway Station on the eastern side by covering a distance of around 2600m in case of Jayamahal Road and between B. D. A. Junction on the southern side and Start of Approach Ramp to Underpass at Mehkri Circle on the northern side by covering a distance of around 1475m in case of Bellary Road. Both the Study Corridors are located in the Northern Part of Bengaluru City.

The Primary Objectives of the Study are as follows.

- To effectively and optimally design the Carriageway in order to have a smooth flow of Vehicular Traffic all along the Corridors.
- To suggest Optimal and Feasible Corridor Improvement Measures to reduce travel time and in turn less Fuel Consumption.
- To increase the Life Cycle of the Selected Stretches of Roads by proper planning of Laying of Service Lines outside the Carriageway.
- To improve the Environmental Conditions of the Corridors by reducing Idle Time.
- To reduce the Vehicle Operation Cost of the Road Users.
- To reduce Traffic Accidents.

To summarise, the Main Objective of the Study of these Corridors is to offer to the Road Users commuting through these Corridors Comprehensive Connectivity, Convenience, Comfort, Affordability, Safety and Aesthetics.

2.2 Project Scope

The Scope of the Study to be carried out by the Consultant involves the following.

- Review of Available Data and Reports. Topographical Survey of the Corridors.
- Road Inventory and Visual Condition Survey.
- Pavement Condition Survey.
- Test Pit Investigation Survey.
- Benkelman Beam Deflection Survey.

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Basic Engineering Designs along with Detailed Estimate for the Approved Concept.

Preparation of Tender Document as per KTPP Act to finalise the Contractor.

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Chapt	er 2 – Objectives and Scope of Study October 2019
2.3	Approach and Methodology
	The Activities that are involved in the Proposetion CD + 11 + D + 12
	The Activities that are involved in the Preparation of Detailed Project Report for Widening of Jayamahal Road and Bellary Road are briefed below.
2.3.1	Stage 1
	 To define the Objectives and Scope of Work.
	To plan Approach and Methodology, Data Collection.
	• Carry out Field Reconnaissance Survey that includes Site Appreciation Identification of
	Survey Locations and Site Constraints.
2.3.2	Starte 9
4.0.4	
	Data Collection Engineering Surveys and Investigation
	gracering burveys and investigations
	1. Topographical Survey.
	2. Road Inventory and Visual Condition Survey.
	3. Pavement Condition Survey.
	 Benkelman Beam Deflection Survey. Test Pit Investigation Survey.
	o. Test 1 ti investigation Survey.
	Secondary Data
	1. Economic Indicators affecting Traffic Growth.
	2. Details of any on going Road Improvements, Junction Improvements, Grade
	Separator Schemes; Footpath Improvements, Sunction Improvements, Grade Metro Rail Alignment along the Project Stretch.
	• Preparation of Layout Drawings and Cross Sections of all the Proposals conceptualized.
2.3.3	Stage 3
	Basic Engineering Designs, Drawings and Cross Sections of the Approved Concept. Land Association Designs, Drawings and Cross Sections of the Approved Concept.
	• Land Acquisition Details.
	• Detailed Cost Estimate.
.3.4	Stage 4
	 Preparation of Tender Document as per KTPP Act to finalise the Contractor.
.4	Design Philosophy
	The Design Standards that will be adopted in the Design of Widening of Jayamahal Road and
	behalf toda shall be in accordance with the Codal Provisions of India as stimulated to
	indian road Congress (IRC), Bureau of Indian Standard (RIC) and the Minister of Rich and Rich and the Minister of Rich and
	Transport & righways (MokT&H). Deviations from the present Codel Previous
	considered in the Flanning Parameters it absolutely possessory consider the parameters it absolutely possessory
	Conditions. These Modifications in the Design shall be adopted based on the Sound Engineering Practices.
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Chapter 2 - Objectives and Scope of Study

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The Basic Engineering Designs and Drawings of the Approved Concept that will be presented as part of the Detailed Project Report shall be based on the Studies and Investigations carried out at Site.



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Chapter 3
Site Characteristics

Chapter 3 - Site Characteristics

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CHAPTER 3 SITE CHARACTERISTICS

3.1 Study Corridor

The Project Roads are located in the Northern Part of Bengaluru City and are the important Arterial Roads of this City. Salient Features of the Project Roads stretch wise are briefly mentioned below.

3.2 Salient Features

3.2.1 Jayamahal Road from Mehkri Circle to Jayamahal Palace Hotel

- 1. It starts at Mehkri Circle on the western side and ends near Jayamahal Palace Hotel or more precisely near the Road under Bridge of Cantonment Railway Station on the eastern side.
- 2. Total Length of the Corridor: 2600m.
- 3. Major / Minor Junctions along the Corridor:
 - Mehkri Circle, at Ch: 0m: Four Arms Junction.
 - CIL Road Junction, between Ch: 900m and 925m: Three Arms (T Shaped) Junction.
 - Munireddy Palya Road Junction, at Ch: 1425m: Three Arms (Y Shaped) Junction.
 - Nandidurga Road Junction, at Ch. 1500m: Three Arms ('Y' Shaped) Junction.
 - Jayamahal 5th Main Road Junction, between Ch: 1948m and 1962m: Three Arms ("T" Shaped) Junction.
 - Jayamahal 1st Main Road Junction, between Ch: 2125m and 2150m: Three Arms ('Y' Shaped) Junction.
- 4. The Corridor passes through the Areas of Munireddy Palya, J. C. Nagar, Jayamahal Extension, Nandidurga Road Extension, etc.
- 5. Divided bi directional Vehicular Movement with at least (3 + 2) lane is seen between Ch: 0m and 900m, divided bi directional Vehicular Movement with almost (2 + 2) lane is seen between Ch: 925m and 1225m, divided bi directional Vehicular Movement with at least (2 + 2) lane is seen between Ch: 1275m and 1950m, divided bi directional Vehicular Movement with almost (2 + 3) lane is seen between Ch: 1950m and 2400m, divided bi directional Vehicular Movement with almost (2 + 2) lane is seen between Ch: 2400m and 2600m.
- 6. Footpath is present on either side almost throughout the Corridor, except from Ch: 0m to Ch: 400m on the northern side and from Ch: 400m to Ch: 912m on the western side. ಎತರಸಲಾಗಿದೆ"
- 7. Service Lines (along with Service Chambers at frequent intervals) are present within the Carriageway Limit on either side of the Corridor between Ch: 925m and 6h: 2600m.

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8. Type of Establishments:

- Northern Side:
 - Between Ch: 0m and 400m: Defence Establishment.
- · Southern Side:
 - Between Ch: 0m and 400m: Palace Property.
- Eastern Side:
 - Between Ch: 400m and 900m: Defence Establishment.
 - Between Ch: 925m and 1225m: Chandana Dooradarshan Kendra.
 - Between Ch: 1275m and 1600m: Mixed Development.
 - Between Ch: 1600m and 1900m: Religious Establishment.
 - Between Ch: 1900m and 1975m: Mixed Development.
 - Between Ch: 1975m and 2375m: Residential Establishment.
 - Between Ch: 2375m and 2600m: Jayamahal Palace Hotel.
- · Western Side:
 - Between Ch: 400m and 2600m: Palace Establishment.
- 9. Important/Well Known Establishments:
 - Northern Side:
 - Between Ch: 0m and 400m: Defence Establishments.
 - Eastern Side:
 - Between Ch: 400m and 900m: Defence Establishment.
 - Between Ch: 925m and 1225m: Chandana Dooradarshan Kendra.
 - Between Ch: 1600m and 1900m: Darga and Burial Ground.
 - Between Ch: 1900m and 1925m: J. C. Nagar Post Office.
 - Between Ch: 2375m and 2600m: Jayamahal Palace Hotel.
 - Western Side:
 - Between Ch: 1200m and 1425m: Fun World.
 - Between Ch: 1425m and 1550m: Snow City.
 - Between Ch: 1575m and 1625m: K. C. Palace Club.
- 10. Roadside Drain is present throughout the Corridor on either side adjacent to Properties, except from Ch: 1350m to Ch: 1950m on the eastern side and from Ch: 2575m to Ch: 2600m on the western side.
- 11. Street Lighting Arrangement is adequate along the Corridor ಹಿತ್ತಿ ಹಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"
- 12. Tree Island is present within the Carriageway on the eastern side from Ch: 360m to Ch: 810m with average width of 2.3m.

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13.4 Nos. of Trees of Girth Diameter varying between 1800mm and 2700mm are present within the Carriageway on the northern side. This reduces the Safety of the Vehicle Users using this stretch of Road.

3.2.2 Bellary Road from B. D. A. Junction to Mehkri Circle

- 1. It starts at B. D. A. Junction on the southern side and ends at Start of Approach Ramp to Underpass at Mehkri Circle on the northern side.
- 2. Total Length of the Corridor: 1475m.
- 3. Major / Minor Junctions along the Corridor:
 - B. D. A. Junction, at Ch: 0m: Four Arms Junction.
 - Cauvery Theatre Junction, between Ch: 550m and 650m: Three Arms ('Y' Shaped) Junction.
- 4. The Corridor passes through the Areas of Guttahalli, Sadashiva Nagar, etc.
- 5. The Corridor runs along Guttahalli Main Road from Ch: 0m to Ch: 550m and Bellary Road from Ch: 550m to Ch: 1475m.
- 6. Divided bi directional Vehicular Movement with at least (4 + 4) lane is seen between Ch: 0m and 250m, divided bi directional Vehicular Movement with at least (2 + 2) lane is seen between Ch: 250m and 550m, divided bi directional Vehicular Movement with almost (2 + 2) lanc is seen between Ch: 650m and 1250m, divided bi directional Vehicular Movement with almost (3 + 3) lane is seen between Ch: 1250m and 1350m, divided bi directional Vehicular Movement with at least (4 + 4) lane is seen between Ch: 1375m and 1475m.
- 7. Footpath along with Service Lines (along with Service Chambers at frequent intervals) is present from Ch: 0m to 1475m on the western side and from Ch: 0m to 1225m on the eastern side.
- 8. Type of Establishments:
 - Eastern Side:
 - Between Ch: 0m and 1475m: Palace Property.
 - Western Side:
 - Between Ch: 0m and 175m: Commercial Establishment.
 - Between Ch: 200m and 500m: Institutional Establishment.
 - Between Ch: 500m and 600m: Commercial Establishment.
 - Between Ch: 650m and 1475m: Mixed Developments ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"
- 9. Important/Well Known Establishments:
 - Eastern Side:
 - Between Ch: 0m and 1475m: Palace Property.

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- Western Side:
 - Between Ch: 200m and 500m: National Tuberculosis Institute.
 - Between Ch: 1075m and 1100m: All India Veerashaiva Maha Sabha.
- 10. Roadside Drain is present throughout the Corridor on either side adjacent to Properties, except from Ch: 650m to 775m and from Ch: 900m to 1000m on the western side.
- 11. Street Lighting Arrangement is adequate along the Corridor.
- 12. Tree Island is present within the Carriageway on the western side from Ch: 125m to Ch: 250m with average width of 10.2m.

Key Plans of the Project Corridors are enclosed in Annexure A.1.1 and the Existing Site Photographs are enclosed in Chapter 7 - Photographs.

The Site Details (Road Inventory) at every 50m chainage wise in tabular form are given in Annexure A.4.1.

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CHAPTER 4 ENGINEERING SURVEYS AND INVESTIGATIONS

4.1 General

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Various Surveys and Investigations that are essential Inputs for Detailed Engineering Design for the Widening of Jayamahal Road and Bellary Road are detailed out in this Chapter. All the relevant Maps / Data / Details available with the Concerned Departments have been collected, compiled and reviewed. Particular Attention has been given to Past / Historical Data / Reports. A Review of the Past Data available in the various Studies has been listed out and such Available Data has been made use of, after updating / augmenting the Data wherever necessary. The Data as collected have been made use of in Analysis, Design and Formulation of the Widening Proposals and Costing. The Activities have been performed on several fronts fully complying with the Requirements. The Activities those have been carried out are succinctly brought out hereunder.

The various Engineering Surveys / Investigations of the Road Sections include

- Reconnaissance Survey.
- · Topographical Survey
- · Road Inventory.
- · Pavement Condition Survey.
 - · Visual Condition Survey.
 - Benkelman Beam Deflection Survey.

4.2 Reconnaissance Survey

Reconnaissance Survey of the Project Corridor considered for Widening i.e. from Ch: 0m to Ch: 2600m in case of Jayamahal Road and from Ch: 0m to Ch: 1475m in case of Bellary Road has been carried out to identify the General Condition of Roads, Drains and Culverts / Bridges for further Surveys / Investigations, to understand the Kind of Establishments along the Project Stretch and to work out the Widening and other Development Schemes accordingly. Making use of the Observations / Data collected during Reconnaissance Survey, Detailed Schedule for Surveys / Investigations required for the Project has been finalised.

4.3 Topographical Survey

Topographical Survey has been carried out using Total Station based on the Requirements initiated in the Reconnaissance Survey. A Comprehensive Topographic Survey has been conducted all along both the Corridors using Total Station Equipment to accurately map the Area and obtain the Present Information on Carriageway Width, Centre Line of Road, Location of Median and its Width, Roadside Drain Width, Footpath Width; Location of Electrical Poles, Lamp Posts, Trees with the Girth Diameter, etc; Adjoining Land Use; Building Offsets; Available Right of Way (ROW) and Levelling Data using Auto Level. The entire Levelling has been carried out using Temporary Bench Mark established at Site. The Profiles and Levels of the Road Network within the Study Area have been also captured by taking Longitudinal and Cross Section Levels. The Extent of Survey has been limited to 100m beyond the Battery Limit on both the sides of the Corridors, has been limited to 100m Carriageway for all the Roads intersecting with the Main Carriageway in order to allow for the Geometric Improvements and to 50m from the Main Carriageway for all the Roads

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Chapter 4 - Engineering Surveys and Investigations

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intersecting with the Main Carriageway to form a Major Junction in order to allow for the Geometric Improvements. The Details have been captured adequately for Planning and Designing of the Proposed Widening Scheme. The Data captured is in 3D Format, which have been directly downloaded to Computers and is compatible for Modern Design Softwares. Topographical Maps along with Existing Cross Section Details for the above Project Roads are given in Volume II – Drawings.

4.4 Road Inventory

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A Detailed Inventory of Road Sections has been carried out by making use of well structured Inventory Data Format. Various Data collected during the Road Inventory broadly include

- · Road Length and Number of Lane.
- Surface Type and Condition.
- Shoulder, Median, Drain (Tertiary / Shoulder), Footpath Type and Width.
- Right of Way.
- Cross Drainage and Bridge Structures.
- · Land use type.
- Salient Buildings and Structures.
- Details of Major Junctions.
- · Bus / Auto Stops.
- On Street Parking.

All the above Information have been compiled and presented (Chainage wise) in the form of tables for easy understanding. The Data captured with respect to Road Geometry have been made use of to identify the Scope for Improvement in Road Geometry and Width of Carriageway.

The Details of Road Inventory and Condition Survey in tabular form are given in Annexure A.4.1.

4.5 Pavement Condition Survey

The Pavement Condition Survey has been carried out in accordance with the IRC Guidelines. All Surveys and Investigations have been carried out with the following Objectives.

- To have an upto date Record of Road Assets.
- To have a clear understanding of Road Side Features including Land Use, Drainage Characteristics, etc. and
- To assess the Condition and Strength Data of the existing Carriageway for developing Bituminous Overlay Proposals and related Designs.

4.5.1 Visual Condition Survey

Visual Condition Survey of the Road Sections has been carried out by travelling along the Project Road and noting down the Pavement Conditions such as Extent of Cracking, Patching, Rutting, Potholes, Edge Breaking, etc. by visual observations in a well structured Data Format. During the Inspection of the Roads, it has been found that the Pavement Surface is Fair by Visual Observations for most of the Road Sections. The Data so collected has been compiled and presented (Chainage wise) in the form of tables for easy understanding. These Data have been used to assess the Pavement Condition.

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Bruhat Bengaran Caloregara Palike

Chapter 4 - Engineering Surveys and Investigations

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October 2019

The Details of Visual Condition Survey in tabular form are given in Annexure A.4.1.

The Visual Condition Survey reveals that the existing Pavement Condition along both the Project Stretches is good to fair.

4.5.2 Benkelman Beam Deflection Survey

Benkelman Beam Deflection Survey of the Road Sections has been carried out in accordance with the Procedure given in IRC: 81 - 1997 "Tentative Guidelines for Strengthening of Flexible Road Pavements using Benkelman Beam Deflection Technique" in the Month of March 2018 in order to assess the Pavement Strength and related Parameters. During the Survey, Pavement Temperature has been measured for correcting the Deflection Values to the Standard Temperature. Seasonal Factor has also been determined from the Type and Moisture Content of Sub Grade Soil.

The Deflection Data have been analysed for each homogeneous section and the Analysed Data are presented in Annexure A.4.2. The Data so analysed form a Useful Input to estimate the Extent of Bituminous Overlay required for Strengthening of the existing Pavement. The Structural Evaluation especially with regard to the Adequacy / Inadequacy of the Road Sections improved earlier in Various Schemes has also been assessed so that not to duplicate the same in the Upgradation Proposals.

4.6 Secondary Data

Details of any Ongoing Development Works along the Project Road such as Road Improvements, Junction Improvements, Grade Separation Schemes, Footpath Improvement Schemes, NICE Corridor Scheme, Metro Rail Scheme, etc. have been collected so that to integrate the same with the Improvement Proposals suggested and also to avoid Duplication, which will have a direct bearing on the Project Cost.

It has been observed that no other Development Works have been taken up in both the Project Corridors.

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Annexure A.4.1
Details of Road Inventory and Visual
Condition Survey

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Annexure A.4.2
Details of Benkelman Beam Deflection
Survey

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Benkelman Beam Deflection Test

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Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) Name of Road: Direction:

From Ch: 0m to 2700m Arterial Road Type:

Both Wheel Path Survey Along: Date of Survey:

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BRUHAT BANGALORE MAHANAGARA PALIKE Asst. EXECUTIVE ENGINEER BANGALORE

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ASSI. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

Benkelman Beam Deflection Test

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Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) From Ch: 2700m to 0m Name of Road: Direction:

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Asst. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

Benkelman Beam Deflection Test

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Bellary Road (From B.D.A. Junction to Mehkri Circle) Name of Road:

From Ch: 0m to 1475m

Direction:

Arterial Road Type:

Both Wheel Path Survey Along: Date of Survey:

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BRUHAT BANGALORE MAHANAGARA PALIKE Asst. EXECUTIVE ENGINEER BANGALORE Benkelman Beam Deflection Test

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Bellary Road (From B.D.A. Junction to Mehkri Circle) From Ch: 1475m to 0m Name of Road: Direction:

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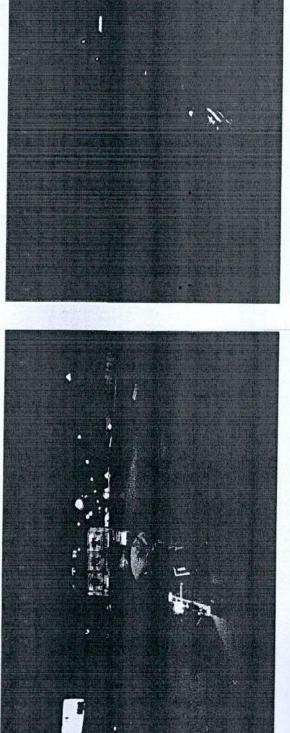
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BRUHAT BANGALORE MAHANAGARA PALIKE

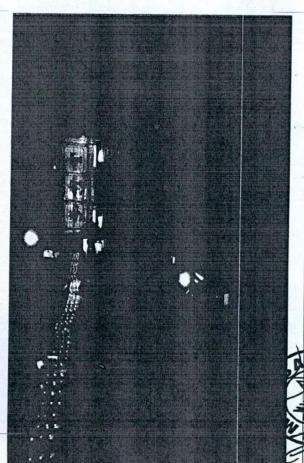
for Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) in Bengaluru City Photographs depicting the Progress of Benkelman Beam Deflection (BBD) Survey

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Photographs depicting the Progress of Benkelman Beam Deflection (BBD) Survey for Widening of Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

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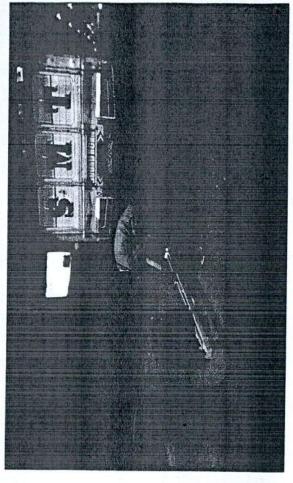
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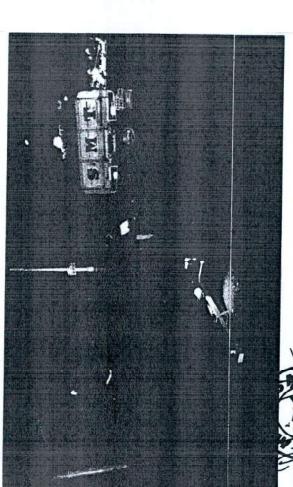
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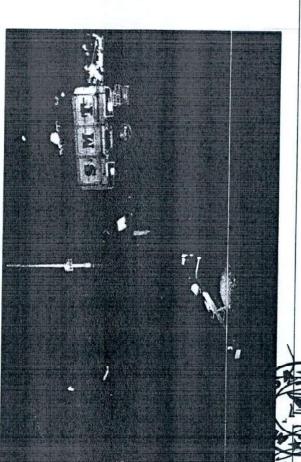
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Chapter 5
Development Proposals

Chapter 5 - Development Proposals

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CHAPTER 5 DEVELOPMENT PROPOSALS

5.1 General

Improvement Proposals for an existing Road Section and Widening of the Carriageway essentially consist of two components, Geometric and Structural Improvements. Geometric Improvements deal with Visible Dimensions of Roadway, Probable Road Widening and is dictated by the Traffic and Economic Considerations. Due to the inherent restrictions like Limitation in Land Acquisition, limited Right of Way and existing Utilities / Services, etc. the Horizontal and Vertical Alignments in general follow the Existing Geometry except in situations where Improvements are possible. The Geometric Improvements mainly involve Improvements to Cross Sectional Elements such as Carriageway, Shoulders, etc. The Structural Components deal with the Pavement and Embankment Design Aspects, i.e. the Ability of the Roads to adequately carry and support the Vehicle / Wheel Loads over the Design Period. Safety, Speed, Efficiency, Economy and Comfort in Traffic Movement to a large extent are governed by Adequacy of Design Standards used for a Specific Road Facility.

The Improvement Proposals need to consider the Method of Widening like Concentric or Eccentric to the Existing Road, which is dictated by Site Situations like Available Land for Acquisition, Curvature, Existing Utilities, Terrain, Places of Worship, Monuments, Grave Yards, Places of Importance, etc.

Based on the Studies and Investigations and thereafter the Data compiled, the Measures that have been proposed as Widening of Jayamahal Road and Bellary Road are briefly explained below.

5.1.1 Carriageway

5.1.1.1 Jayamahal Road

- From Ch: 0m to 350m: Carriageway with uniform and equal width of 2 X 11m with 4m wide Central Median (in order to save 36 Nos. of existing Trees located in the limit of the Carriageway). The Carriageway consists of Existing Carriageway and Widened Carriageway.
- From Ch: 350m to 950m: Carriageway with uniform and equal width of 2 X 11m with 3m wide Central Median (in order to save 23 Nos. of existing Trees located in the limit of the Carriageway) and 3m wide Tree Island (in order to save 31 Nos. of existing Trees located in the limit of the Carriageway), which will act as a Physical Barrier between Vehicular Carriageway and Cycle Track on the castern side i.e. on the Defence Establishment Side. The Carriageway consists of Existing Carriageway and Widened Carriageway.
- From 950m to 2600m: Carriageway with uniform and equal width of 2 X 10.5m with 1m wide Central Median. The Carriageway consists of Existing Carriageway with uniform and equal width of 2 X 10.5m with 1m wide Central Median. The Carriageway consists of Existing Carriageway.

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Chapter 5 - Development Proposals

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- Eccentric Widening, due to Land Availability in the Palace Property only, has been proposed all along the Project Stretch.
- The Visual Condition Survey reveals that the existing Pavement Condition along the Project Stretch is good to fair. Further, the BBD Survey Result and its concurrent Design Analysis of the existing Pavement propose that the Pavement needs to be resurfaced by laying 40mm thick Bituminous Concrete (BC). For Design Details refer Annexure A.5.1.
- The Compositions of Pavement in the Widened Portion have been designed with Subgrade of 4 days soaked CBR of 10% and are as mentioned below.
 - Construction of 500mm thick Subgrade.
 - ii. Construction of 200mm thick Granular Sub Base.
 - iii. Construction of 250mm thick Base (Wet Mix Macadam).
 - iv. Providing and laying of 75mm thick Dense Bituminous Macadam (DBM).
 - Providing and laying of 40mm thick Bituminous Concrete (BC).

For Design Details refer Annexure A.5.2.

5.1.1.2 Bellary Road

- Carriageway with uniform and equal width of 2 X 10.5m with Central Median of varying width (this is due to create Tree Island in order to save 172 Nos. of existing Trees located in the limit of the Carriageway) has been proposed all along the Project Stretch. The Carriageway consists of Existing Carriageway and Widened Carriageway.
- Eccentric Widening, due to Land Availability in the Palace Property only, has been proposed all along the Project Stretch.
- The Visual Condition Survey reveals that the existing Pavement Condition along the Project Stretch is good to fair. Further, the BBD Survey Result and its concurrent Design Analysis of the existing Pavement propose that the Pavement needs to be resurfaced by laying 40mm thick Bituminous Concrete (BC). For Design Details refer Annexure A.5.1.
- The Compositions of Pavement in the Widened Portion have been designed with Subgrade of 4 days soaked CBR of 10% and are as mentioned below.
 - i. Construction of 500mm thick Subgrade.
 - ii. Construction of 200mm thick Granular Sub Base.
 - iii. Construction of 250mm thick Base (Wet Mix Macadam).
 - iv. Providing and laying of 85mm thick Dense Bituminous Macadam (DBM).
 - v. Providing and laying of 40mm thick Bituminous Concrete (BC).

For Design Details refer Annexure A.5.2.

5.1.2 Cycle Track

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Cycle Track of minimum 1.5m Width on either side throughout the Project Stretch in case of Jayamahal Road and minimum 2.2m Width from Ch: 325m to 150 and 110 and 110

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Chapter 5 - Development Proposals

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Bellary Road with Green Pigment Asphalt in order to differentiate the Track from the Vehicular Carriageway has been proposed.

Footpath along with Service Lines

- Footpath of minimum 2.5m Width along with Kerb Stone at the edge of Carriageway / Cycle Track on either side of both the Corridors has been proposed throughout the Project Stretch.
- For Dedicated Service Lines the following have been proposed all along the Footpath on either side. Further, these Provisions have been proposed as per the Requirements of the respective Service Departments.
 - 1 No. of 900mm diameter NP3 Pipe for Storm Water Drain on the Property Side and 1 No. of 1200mm diameter NP3 Pipe for Storm Water Drain on the Palace Side along with Covered Inspection Chamber of Clear Dimensions 1.3m X 1.3m X 1.85m for 900mm diameter Pipe and 1.6m X 1.6m X 2.05m for 1200mm diameter Pipe at every 10m c/c interval. Further, Catch Drain consisting of 300mm diameter NP3 Pipe at 30m c/c interval along with Covered Inspection Chamber of Clear Dimensions 0.5m X 0.5m X 0.4m has been proposed in order to convey the Storm Water from Right of Way to Storm Water Drain.
 - ii. 4 Nos. of 200mm diameter HDPE Pipes of Class PE 100 PN 6 0 for Power Line along with House Connections and Covered Inspection Chamber of Clear Dimensions 2.0m X 1.0m X 1.7m at every 40m c/c interval.
 - iii. 6 Nos. of 90mm diameter HDPE Pipes of Class PE 100 PN 6 0 for OFC Line along with House Connections and Covered Inspection Chamber of Clear Dimensions 1.0m X 1.0m X 1.5m at every 40m c/c interval.

Further, Cross Ducts of 300mm diameter RCC Pipe in double row have been proposed near Crossings along with Covered Chamber of Clear Dimensions 0.9m X 0.9m X 1.1m on either side at the edge of Footpath for Cross Utility Lines.

- 60mm thick Interlocking Concrete Paver Block with Concrete Band @ 7.5m c/c interval has been proposed to be laid on the Footpath.
- Tubular Steel Railing has been proposed to be fixed at the edge of the Footpath, in order to provide Safety to the Pedestrians, based on the location of the Commercial Establishments (where haphazard movement of Pedestrians is expected), at the following Chainages.

Jayamahal Road: From Ch: 1275m to 1525m on the Property Side i.e. on the eastern side of the Corridor.

Bellary Road: From Ch: 0m to 175m and from Ch: 650m to 1475m on the Property Side i.e. on the western side of the Corridor.

5.1.4 Docking Station

Docking Station (Parking Space for Bicycles) of 2m Width has been proposed at various scattered locations near Footpath, based on the Space Availability (ಇತಿ

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Chapter 5 - Development Proposals

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available after maintaining minimum 2.5m wide Footpath) on either side of both the Corridors. The Design Specifications of the Docking Station are same as of the Footpath.

5.1.5 Street Light

- Jayamahal Road: Adequate Street Light Provisions (LED Light of 150W) at the edge of Footpath on either side at every 25m c/c intervals have been proposed all along the Corridor.
- Bellary Road: Adequate Street Light Provisions (LED Light of 150W towards Carriageway and 25W towards Footpath) at the edge of Footpath on either side at every 25m c/c intervals have been proposed all along the Corridor.

Further, 2 Nos. of High Mast Lights have been proposed at Guttahalli Circle i.e. between Ch: 125m and 250m of Bellary Road.

Lighting Layout Details are given in Volume II - Drawings.

5.1.6 Tree Transplantation

Due to the Road Widening Proposals along both Jayamahal Road and Bellary Road, 327 Nos. of Trees in case of Jayamahal Road and 150 Nos. of Trees in case of Bellary Road are interfering with the Proposed Alignment of the Carriageway. After the Detailed Site Inspection and concurrent Discussions with the Forest Department, 205 Nos. of Trees (Girth Diameter varying from 300mm to 2700mm) in case of Jayamahal Road and 61 Nos. of Trees (Girth Diameter varying from 300mm to above 2700mm) in case of Bellary Road have been identified and proposed to be transplanted along the edge of Footpath of the respective Corridor. Space has been demarcated, based on the availability, at the edge of the Footpath on either side of both the Corridors for this purpose.

5.1.7 Lane Marking and Road Signs

- Provisions for Lane Marking, Zebra Crossing have been proposed.
- Construction of 4 Nos. of High Raised Pedestrian Crossings in each Corridor has been proposed.
- Road Sign Boards such as No Parking Board, Speed Limit Board, Informatory Sign Boards and Direction Boards have been proposed at suitable Locations at the edge of Footpath near the Carriageway.

Lane Marking and Road Sign Details are given in Volume II - Drawings.

5.1.8 Road Furniture

 Road Studs have been proposed all along the Carriageway at the Median Edge Line, Kerb Edge Line and Traffic Lane Line on either side of both the Corridors at suitable intervals.

Proposed Concept Plans along with Proposed Cross Section Details of the Project Corridors active in Volume II - Drawings.

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Annexure A.5.1
Design Details for Strengthening of
Existing Pavement

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Overlay Design of Existing Flexible Pavement (as per IRC: 81 - 1997)

Name of Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Road: Jayamahal Road

Calculation of Deflection of Pavement by using 'Benkelman Beam Apparatus'

The Benkelman Beam Rebound Deflection Study has been conducted in the Month of March 2018 along the Project Road so that to assess the Pavement Strength and Related Parameters as per IRC: 81 – 1997. The Study has been carried out along the Outer Wheel Path, i.e., 0.9m from the Outer Edge of the Pavement along both directions. For divided carriageways, the Deflections have been measured at 28 locations for each direction i.e. LHS and RHS. As per the IRC Guidelines, the Deflection Observation Points have been staggered along the two wheel paths.

The Study has been carried out by the CGRA Procedure, by observing the Initial, Intermediate and Final Readings at each Deflection Observation Point. A Standard Truck with a Rear Axle Load of 8170 kg fitted with Dual Tyres inflated to a pressure of 5.6 kg/cm² has been used for conducting Rebound Deflection Study on the Road Pavement.

As the Deflection Values vary depending upon the Temperature of the Bituminous Layer hence the Pavement Temperature has been measured at a depth of 40mm as specified in IRC: 81 – 1997. The Subgrade Soil Samples have been collected from the Wheel Paths where Deflection Studies have been conducted. Samples of Soil Subgrade Material have been collected after excavating the Pavement Materials and removing of the same upto the Subgrade Level. The Subgrade Soil Samples have been subjected to Laboratory Tests for Determination of Field Moisture Content and Index Properties for Soil Classification. The Soil Samples thus collected have been therefore placed immediately in Air Tight Polythene Bags and sealed so that to conduct the desired Tests in the Laboratory.

Design of Overlay:

The Characteristic Deflection for the Pavement Sections have been determined from the Benkelman Beam Rebound Deflection Studies and the Overlay Composition for different roads in various zones as per Design CSA is presented in Table below.

			Pavement	Condition Surv	/ey	
Total Length	Type of Pavement		of Pavement	Existing Crust Thickness		Total Crust Thickness
				НМА	Base	
2.7 Km	Flexible	Good 65%	Fair 35%	130mm	500mm	630mm

Benkelman Beam Deflection Summury

Chainage		ge Characteristic Deflection		Average Characteristic Deflection for	Deflection out of	Remarks
From	То	From Mehkri Circle to Jayamahal Palace Hotel	From Jayamahal Palace Hotel to Mehkri Circle	both Wheel Paths	both Directions	
0	2700	0.94	0.72	0.83	0.94 "ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದೆ ಆ	್ಷಾಗಿ ನಿತ್ರಸ್ಥರಾಗಿದೆ"
	1 1 1 1 1				"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದೆ ಅ	300000 200000

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Design Parameters	Design Values	Unit
i Design Traffic	23	msa
ii Corrected Characteristic Deflection	0.94	
iii Thickness of Overlay in terms of BM from the Chart	51.75	mm
iv Thickness in terms of DBM / BC / SDBC		mm
VITHICKNESS III TELIIIS OF DBM / BC / SDBC	37.00	

Hence, the Overlay Thickness is converted in terms of Bituminous Concrete (BC) with 40mm i.e. 1 cm Bituminous Hence, the Overlay Thickness is converted in terms of Bituminous Concrete (BC) with 40mm i.e. 1 cm Bituminous Macadam = 0.7cm of DBM / BC / SDBC (as per Clause No. 7.4 of IRC: 81 – 1997) and in accordance to MORT&H-Fifth Revision 2013.

Overlay Design of Existing Flexible Pavement (as per IRC: 81 - 1997)

Name of Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Road: Bellary Road

Calculation of Deflection of Pavement by using 'Benkelman Beam Apparatus'

The Benkelman Beam Rebound Deflection Study has been conducted in the Month of March 2018 along the Project Road so that to assess the Pavement Strength and Related Parameters as per IRC: 81 – 1997. The Study has been carried out along the Outer Wheel Path, i.e., 0.9m from the Outer Edge of the Pavement along both directions. For divided carriageways, the Deflections have been measured at 15 locations for each direction i.e. LHS and RHS. As per the IRC Guidelines, the Deflection Observation Points have been Staggered along the two wheel paths.

The Study has been carried out by the CGRA Procedure, by observing the Initial, Intermediate and Final Readings at each Deflection Observation Point. A Standard Truck with a Rear Axle Load of 8170 kg fitted with Dual Tyres inflated to a pressure of 5.6 kg/cm² has been used for conducting Rebound Deflection Study on the Road Pavement.

As the Deflection Values vary depending upon the Temperature of the Bituminous Layer hence the Pavement Temperature has been measured at a depth of 40mm as specified in IRC: 81 – 1997. The Subgrade Soil Samples have been collected from the Wheel Paths where Deflection Studies have been conducted. Samples of Soil Subgrade Material have been collected after excavating the Pavement Materials and removing of the same upto the Subgrade Level. The Subgrade Soil Samples have been subjected to Laboratory Tests for Determination of Field Moisture Content and Index Properties for Soil Classification. The Soil Samples thus collected have been therefore placed immediately in Air Tight Polythene Bags and sealed so that to conduct the desired Tests in the Laboratory.

Design of Overlay:

The Characteristic Deflection for the Pavement Sections have been determined from the Benkelman Beam Rebound Deflection Studies and the Overlay Composition for different roads in various zones as per Design CSA is presented in Table below.

			Pavement Cone	dition Survey		
Total Length	Type of	Condition	of Pavement	Existing Crust Thickness		Total Crust
		A STATE OF THE PARTY OF THE PAR		HMA	Base	Thickness
1.475 Km	Flexible	Good 90%	Fair 10%	150mm	500mm	650mm

Benkelman Beam Deflection Survey Summury

Chainage		Characteristic Deflection			Deflection out of	Remarks
From	То	From B. D. A. Junction to Mehkri Circle	Circle to B. D. A.	both Wheel	- I Colomb	
0	1475	0.87	0.92	0.90	0.92	- 211

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Design Parameters Design Traffic Ourrected Characteristic Deflection	Design Values	Unit	
ii Corrected Characteristic Deflection	30	msa	
iii Thickness of Overlay in terms of BM from the Chart	0.92	mm	
iv Thickness in terms of DBM/BC/SDBC	51.24	mm	
TO THE OF BEILD BE A SUBC	36.00	mm	

Hence, the Overlay Thickness is converted in terms of Bituminous Concrete (BC) with 40mm i.e. 1 cm Bituminous Macadam = 0.7cm of DBM / BC / SDBC (as per Clause No. 7.4 of IRC: 81 – 1997) and in accordance to MORT&H Fifth Revision 2013.

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Annexure A.5.2 sign Details for Pavement in the Widened Portion Design Details for Pavement in the

Flexible Pavement Design as per IRC: 37 - 2018

Name of Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Road: Bellary Road

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Design Parameters	Design Values	Remark
No. of Commercial Vehicles as per last count, P	987	ZVCIIIII N
No. of Years between the last count and the Year of completion of Construction, x	1.5	
Lane Distribution Factor, D	0.6	
Vehicle Damage Factor, F		
Design Life in Years, n	3.9	
Annual Growth Pote of Co.	20	Seed 1
Annual Growth Rate of Commercial Vehicles in Decimal, r	0.05	
Initial Traffic in the year of completion of Construction in terms of the Number of Commerical Vehicles per Day (CVPD), A	P(1+r)^x	
A=	1061.942743	
Cummulative No. of Standard Axles to be catered in the Design in terms of msa, N	(365*((1+r)^n-1)*A*D*F)/r/10^6	
Design CPR Value of C. I. C. I	29.99	Say 30
Design CBR Value of Sub Grade Soil	10%	,

Bituminous Concrete (BC) Dense Bituminous Macadam (DBM)	40	mm
Wet Mix Macadam (WMM)	85	mm
Granular Sub Base (GSB)	250	mm
Total Pavement Thickness	200	mm
Total Lavement Inickness	575	mm

Note: 500mm thick Modified Subgrade with 4 days Soaked CBR > 10% shall be provided ವರಸಲಾಗಿದೆ"

Flexible Pavement Design as per IRC: 37 - 2018

Name of Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Road: Jayamahal Road

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Design Parameters	Design Values	Remarks
No. of Commercial Vehicles as per last count, P	751	avoidat KS
No. of Years between the last count and the Year of completion of Construction, x	1,5	
Lane Distribution Factor, D	0.6	
Vehicle Damage Factor, F	3.9	
Design Life in Years, n	20	
Annual Growth Rate of Commercial Vehicles in Decimal, r	0.05	
Initial Traffic in the year of completion of Construction in terms of the Number of Commercial Vehicles per Day (CVPD), A	P(1+r)^x	
A=	808.0233026	SEASTER VIEW
Cummulative No. of Standard Axles to be catered in the Design in terms of msa, N	(365*((1+r)^n-1)*A*D*F)/r/10^6	
N =	22.82	Say 23
Design CBR Value of Sub Grade Soil	10%	2uj 20

Pavement Composition interpolated From Plate 6, CBR 10% (IRC: 37 - 2018)

Bituminous Concrete (BC)		
Dictiminous Concrete (BC)	40	mm
Dense Bituminous Macadam (DBM)	75	mm
Wet Mix Macadam(WMM)	250	mm
Granular Sub Base (GSB)	200	mm
Total Pavement Thickness	565	mm

Note: $500 \mathrm{mm}$ thick Modified Subgrade with 4 days Soaked CBR > 10% shall be provided.

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ASSI. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE

CHAPTER 6 PROJECT COST

6.1 Rate Analysis

As part of Detailed Project Report (DPR), Rate Analysis of each of the item has been prepared by adopting PW, P & IWTD SR 2018 – 19, Issue Rate applicable from 01 – 01 – 2019, Bengaluru Circle, Bengaluru; Bangalore Water Supply and Sewerage Board SR 2017 – 18 and PW, P & IWTD SR 2019 – 20 for Electrical Works. The Rates as given in PW, P & IWTD SR for Civil Works are to be enhanced by 6% for Common Area Weightages for the Road Works to be executed under Bruhat Bangalore Mahanagara Palike (BBMP) Limits, Bengaluru Circle. Items, not covered in PW, P & IWTD SR / National Highway SR / BWSSB SR / PW, P & IWTD Electrical SR, have been based on the Market Rates.

6.2 Detailed Cost Estimate

As part of the DPR, Detailed Cost Estimate has been prepared for Proposed Widening of Jayamahal Road from Ch: 0m to Ch: 2525m and Bellary Road from Ch: 0m to Ch: 1475m based on the Detailed Engineering Design.

6.3 Project Cost

The Rates of the Various Items of Works have been analysed keeping in view of the Basic Rates as per SR and their respective lead. Provisions for Consultancy Charges towards DPR Preparation, Project Management and Construction Supervision; Contingencies, etc. have been made as per the normal practice.

The Abstract of the Project Cost is detailed in **Table 6.1**. Further, Item wise Abstract of Project Cost of Jayamahal Road and Bellary Road is detailed in tabular format in **Table 6.2** and **Table 6.3** respectively. For the proposed Widening of Jayamahal Road and Bellary Road, total Cost of the Project has been worked out as Rs. 6017.00 Lakh.

The Detailed Cost Estimate is presented in Annexure A.6.1.

Table 6.1 Abstract of Detailed Cost Estimate

Sl. No.	Description	Cost in Rs.
1.	Construction Cost for Jayamahal Road (C1)	315199487.64
2.	Construction Cost for Bellary Road (C2)	208113113.88
	Total Construction Cost (C) $(C_1 + C_2)$	523312601.52
3.	Add GST @ 12%	62797512.18
1	Total Construction Cost including GST	586110113.70
4.	Consultancy Charges for DPR Preparation and PMC	6273691.58
	Services	
5.	Contingencies and other Charges	8890254.59
	Sub Total	601274059.88
6.	Miscellaneous and rounding off	425940.12
	Grand Total	<u>කරාූ පසිරාව 601700000.00</u>
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Page 1 of 3



Table 6.2 Abstract of Project Cost

Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel)

Sl. No.	Description	Cost in Rs.
1.	Site Clearance and Dismantling Works	7241832.26
2.	Construction of Missing Link of the Compound	24006352.56
3.	Laying of Utility Ducts (Pipes for Storm Water Drain, Power Cables and OFC) and Cross Ducts	95811810.80
4.	Construction of Footpath; Providing and Fixing of New Kerb Stones, Bollards and Railing and Construction of Tree Guard Wall	48897420.66
5.	Construction of Median	16128712.00
6.	Construction of Culverts	
7.	Carriageway Construction / Strengthening Works	4830489.78
	a. Construction of Carriageway in the Widened Portion	66586877.74
	b. Strengthening of existing Carriageway (Camber Correction, laying of Overlay)	29589800.50
8.	Construction of Docking Stations	561537.60
9.	Providing Traffic Signs, Lane Marking, Pedestrian Crossing, Studs, etc.	5592962.18
10.	Tree Transplantation	4079500.00
	· Construction Cost for Civil Works (A1)	303327296.08
11.	Construction Cost for Electrical Works (B ₁)	11872191.56
	Total Construction Cost (C ₁) (A ₁ + B ₁)	315199487.64
12.	Add Goods and Service Tax (GST) @ 12%	37823938.52
	Total Construction Cost including GST	353023426.15
13.	Consultancy Charges for DPR Preparation and PMC Services	3151994.88
14.	Contingencies and other Charges	4885592.06
	Sub Total	361061013.09
5.	Miscellaneous and rounding off	138986.91
	Grand Total	361200000.00

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Chapter 6 - Project Cost

October 2019

Table 6.3 Abstract of Project Cost

Bellary Road (from B. D. A. Junction to Mehkri Circle)

Sl. No.	Description	Ta
1.	Site Clearance and Dismantling Works	Cost in Rs.
2.	Construction of Compound	3875490.38
3.	Laying of Utility Ducts (Pipes for Storm Water Drain, Power Cables and OFC) and Cross Ducts	30444829.64
	- July Closs Ducks	57448658.16
4.	Construction of Footpath; Providing and Fixing of New Kerb Stones,	22227 1217
	Bonards and Raining and Construction of Tree Guard Wall	26995464.54
5.	Construction of Median	9149700 00
3.	Construction of Culverts	8142796.00
7.	Carriageway Construction / Strengthening Works	4322443.92
	a. Construction of Carriageway in the Widened Portion	
	b. Strengthening of existing Carriageway (Camber Correction, laying	41988975.44
	of Overlay)	20146695.44
3.	Construction of Docking Stations	
).	Providing Traffic Signs, Lane Marking, Pedestrian Crossing, Studs,	473544.76
		5276570.55
0.	Tree Transplantation	1010000 00
	Construction Cost for Civil Works (A2)	1213900.00
1.	Construction Cost for Electrical Works (B ₂)	200329368.84
	Total Construction Cost (C2) (A2 + B2)	7783745.040
2.	Add Goods and Service Tax (GST) @ 12%	208113113.88
	Total Construction Cost including GST	24973573.67
3.	Consultancy Charges for DPR Preparation and PMC Services	233086687.55
1.	Contingencies and other Charges	3121696.71
		4162262.28
5.	Miscellaneous and rounding off	240370646.54
		129353.46
	Grand Total	240500000.00

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Asst. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE

BANGALORE

Annexure A.6.1
Detailed Cost Estimate

Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

	Abstract of Detailed Cost Estimate	
Sl. No.	Description	Cost in Rs.
1	Construction Cost for Jayamahal Road (C1)	315199487.64
2	Construction Cost for Bellary Road (C2)	208113113.88
	Total Construction Cost (C) $(C_1 + C_2)$	523312601.52
3	Add GST @ 12%	62797512.18
	Total Construction Cost including GST	586110113.70
4	Consultancy Charges for DPR Preparation and PMC Services	
5	Contingencies and other Charges	8890254.59
	Sub Total	601274059.88
6 (Miscellaneous and rounding off	425940.12
	Grand Total	601700000.00



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Jayamahal Road

Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Work: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) in Bengaluru City

31. No.	Abstract of Detailed Cost Estimate Particulars	Cost in Rs.
1	Site Clearence and Dismantling	
7	Construction of Missing Link of the Compound	7241832.20
3	Laying of Utility Ducts (Pipes for Storm Water Drain, Power Cables and	24006352.56
	OFC) and Cross Ducts	
1	Construction of Footpath; Providing and Fixing of New Kerb Stones,	48897420.66
	Bollards and Railing and Construction of Tree Guard Wall	
	Construction of Median	16128712.00
6	Construction of Culverts	4830489.78
	Carriageway Construction / Strengthening Works	
	a. Construction of Carriageway in the Widened Portion	66586877.74
	b. Strengthening of existing Carriageway (Camber Correction, laying of Overlay)	29589800.50
3	Construction of Docking Stations	561537.60
	Providing Traffic Signs, Lane Marking, Pedestrian Crossing, Studs, etc.	5592962.18
0	Tree Transplantation	4079500.00
	Construction Cost for Civil Works (A ₁)	303327296.08
1 .	Construction Cost for Electrical Works (B ₁)	11872191.56
	Total Construction Cost (C ₁) (A ₁ +B ₁)	315199487.64
2	Add GST @ 12%	37823938.52
H	Total Construction Cost including GST	353023426.15
3	Consultancy Charges for DPR Preparation and PMC Services	3151994.88
1	Contingencies and other Charges	4885592.06
	Sub Total	361061013.09
5 .	Miscellaneous and rounding off	138986.91
	Grand Total	361200000.00

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Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A.
Junction to Mehkri Circle) in Bengaluru City

Name of Work: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) in Bengaluru City

<u>Detailed Cost Estimate</u>

Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
1.00	Site Clearence and Dismantling			1	111 111	in in		in Rs.	in Rs.
1.01	Removing B. S. Slab of Drain and Stacking	Sqm	1					<u> </u>	<u> </u>
	P.No.27, I.No.5.32 in PW, P&IWTD SR	2010	10)						
	Drain Top Slab & Footpath Slab	2018	19)		•				
	Eastern Side			-					
	Ch: 950 to 2600			1 1650.00	1.50				
	Deduction at Junction			1 101.84	1.50	••	2475.00	, , ,	
	Western Side		-	101.64	1.50	••	-152.76		
	Ch:0 to 2600			1 2600.00	0.00				
				2600.00	2.90		7545.00		
				-			9867.24		
.02	Removing and resetting of Footpath	Sqm		-		Say	9867.50	104.94	1035495.
-	Slab P.No.270, I.No. 37.56 in PW, P&IWTD S	TD 0010	10)						
	Eastern Side	SR 2018	3 - 19)						
	Ch 0 to 950								2 2 2
-	Deduction at Junction			950.00	1.50		1425.00		
-	Ch 950 to 1300		1	13.77	2.50		34.43		
197	Deduction at Junction		1	350.00	3.01		1055.00	-	
	Ch 2000 to 2350		-1	33.44	3.01		-100.80		-
	Deduction at Junction		1	000.00	1.71		599.38		
	At Ch: 1575		-1	24.00	1.71		-25.35		
	At Ch: 2475		1	02.10	10.40		537.68	- 31	
	S. S. S. L. S. L. S.	_	1	189.0	00		189.00		
		-					3714.34		
						Say	3714.50	208.82	775662.0
03	KSRRB M200-26: Dismantling of n				diameter and a				110002.0
	Kerb Stone by manual means and disposal of dismantled materials with	n					1 4		
	all lifts and complete as per specifications. MORTH Specification No. 202						Ī		
	P.No.141, I.No.18.49 in PW, P&IWTD SR	2018	10)						
-	Eastern Side	2010 -	13)	-					-
	Ch 0 to 2600	-	-	2222.25					
	Deduction at Junction		1	2600.00			2600.00		
	Western Side	-	-1	115.64	-		-115.64		
	Ch 0 to 2600								
	Median	-	1	2600.00		**	2600.00		
	Deduction		1	2600.00			2600.00		
	Tree avenue	-	-1	370.57		44	-370.57		
			2	400.00			800.00	: '	
							8113.79		

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BRUHAT BANGALORE MAHANAGARA PALIKE

BANGALORE

	SI. No.	Sl. No.	Unit	No.		Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
	1.04	KSRRB M200-15.2: Dismantling of	Cum							111 103.	TAT AUS.
1		existing structures like culverts,									
1		bridges, retaining walls and other					1			1 1	
1		structure comprising of masonry,								1	
1		cement concrete, wood work, steel							-	1 7	
,		work, including T&P and scaffolding									
1		wherever necessary, sorting the			1			8		7 .	
•		dismantled material, disposal of		1						1 4	
1		unserviceble material and stacking			- 1				2.		
ļ		the serviceble material with all lifts								1	1
		complete as per specifications.			- 1						
I		iii) Dismantling Stone Masonary									
		B. Rubble Stone Masonry, in								. P	
1		Cement Mortar. SSM			- 1					100	
		Cement Mortal: SSM							50	3	
1		(P.No.140, I.No.18.27 of PW, P&IWTD 8	SR 201	8 - 19)		1					
١.		For Drain Walls ,								4	1
4		Eastern Side							-		
L		Ch 0 to 1350			2	1350.00	0.45	1.00	1215.00		
_		Ch 1975 to 2600			2	625.00	0.45	1.00	562.50		
		Deduction			-2	47.21	0.45	1.00	-42.49		
-	1	Western Side		0.6	2	2600.00	0.45	1.00	2340.00		
_		Storm Water Drain			2	14.00	0.45	1.50	18.90		
		For Compound							20.00		
TO ST		Sub Structure									
		Ch 0 to 725			1	725.00	0.75	0.25	135.94		
					1	725.00	0.60	0.60	261.00		
			-		1	725.00	0.45	0.45	146.81		
		Ch 1500 to 2500			1	1000.00	0.75	0.25	187.50	-	
					1	1000.00	0.60	0.60	360.00		
					1	1000.00	.0.60	0.45	270.00		-
1		Compound at Ch 2475			1	42.00	0.75	0.25	7.88		
_	-				1	42.00	0.60	0.60	15.12		
					1	42.00	0.45	0.45	8.51		
_		Super Structure							Automotive and		
_		Ch 0 to 725			1	725.00	0.45	1.50	489.38		
		Ch 1500 to 2500			1	1000.00	0.60	2.10	1260.00	-+	
	-	Compound at Ch 2475			1	42.00	0.45	2.10	39.69		
-		Room at Ch: 1575			1	7.00	0.75	0.25	1.31		
_	-				1	7.00	0.60	0.60	2.52		
_	-	7			1	7.00	0.45	0.45	1.42		
_		Room at Ch: 1625			1	8.40	0.75	0.25	1.58		
_	_				1	8.40	0.60	0.60	3.02		
-	-				1	8.40	0.45	0.45	1.70		
		Wall at Ch: 250			1	60.00	0.75	0.25	11.25	-	
_					1	60.00	0.60	0.60	21.60		
					1	60.00	0.45	0.45	12.15		
		Wall at Ch: 2500			2	75.00	. 0.75	0.25	28.13		
_		Commence of the commence of th			2	75.00	0.60	0.60	54.00		
_					2	75.00	0.45	0.45	30.38		
-	-				_				7444.78		
1					1			Say	7445.00	372.06	2769987.

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	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
.05	KSRRB M200-13.1: Dismantling of	Cum						1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	111 1101
	existing structures like culverts,								
	Bridges, retaining walls and other			1				1	
	structure comprising of masonry,		1	1					
									11 2
	cement concrete, wood work, steel								
	work, including T&P and scaffolding		-					100	
	wherever necessary, sorting the		ł	1 1				120	
	dismantled material, disposal of								
	unserviceble material and stacking						1		
	the serviceble material with all lifts								
	complete as per specifications.				4				
	II. By Mechanical Means,								
	A. Cement Concrete Grade M15 &				0.50		7. 10 (1.01)		
	M20.	591.0							
	P.No.139, I.No.18.20 in PW, P&IWTD S	SP 2018	. 10)						
	Drain bed	2010	- 10)	-					
	Eastern Side								
	Ch 0 to 1350			1350.00	1.00	0.10	135.00		
	Ch 1975 to 2600			625.00	1.00	0.10			-
	Deduction		-					-	
-	Western Side				1.00	0.10			
-	Compound Bed Concrete			2600.00	1.00	0.10	A COUNTY OF THE		
	Compound Bed Concrete			1725.00	0.90	0.10			
	C			42.00	0.90	0.10			
	Compound Plinth & Coping			1725.00	0.45	0.10	77.63		
-				42.00	0.60	0.10	2.52		y 1
	Room at Ch: 1575			7.00	0.90	0.10	0.63		
	Room at Ch: 1625			8.40	0.90	0.10	0.76		
-	Wall at Ch: 250		1	60.00	0.90	0.10	5.40		
	Wall at Ch: 2500			75.00	0.90	0.10	13.50		
-							712.24		
With the						Say	712.50	413.40	294548.
							-		
06	KSRRB M200-14.2: Dismantling of	Cum							
06	KSRRB M200-14.2: Dismantling of	Cum	***************************************						
	existing structures like culverts,	Cum							
	existing structures like culverts, bridges, retaining walls and other	Cum							
	existing structures like culverts, bridges, retaining walls and other structure comprising of masonry.	Cum					1		
	existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel	Cum .					1		
	existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding	Cum .					1		
	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	Cum					1		
	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	Cum					1		
	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 unserviceble material and stacking	Cum .							
	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	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts complete as per specifications. ii)	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts complete as per specifications. ii) Dismantling brick / Tile work	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts complete as per specifications. ii) Dismantling brick / Tile work Masonary	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar	Cum							
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202						•		
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar		19)						
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No. 139, I.No. 18.23 in PW, P&IWTD SI		19)	725.00	0.20	1.50			
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No.139, I.No.18.23 in PW,P&IWTD SIFOR Compound				0.20	1.50	217.50		
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No.139, I.No.18.23 in PW.P&IWTD SIFOR Compound Ch 0 to 725		1	7.00	0.20	3.00	217.50 4.20		
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No.139, I.No.18.23 in PW.P&IWTD SIFOR Compound Ch 0 to 725 Room at Ch: 1575		1	7.00 8.40	-	3.00	217.50 4.20 5.04		
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No.139, I.No.18.23 in PW.P&IWTD SP. For Compound Ch 0 to 725 Room at Ch: 1575 Room at Ch: 1625		1	7.00	0.20 0.20	3.00 3.00 3.00	217.50 4.20 5.04 36.00		
	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 unserviceble material and stacking the serviceble material with all lifts complete, as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202 P.No.139, I.No.18.23 in PW,P&IWTD SP For Compound Ch 0 to 725 Room at Ch: 1575 Room at Ch: 1575 Room at Ch: 1625 Wall at Ch: 250		1 1 1 1	7.00 8.40 60.00	0.20 0.20 0.20	3.00	217.50 4.20 5.04		

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ASSL EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

BANGALORE

SI. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
1.07	KSSRRB M200-7.1: Clearing grass and removal of rubbish by manual	Ha				144 111	,	in As.	in Ks.
	means and stacking outside the							· .	The Reput
	periphery of the area cleaned complete as per specification.			ومنسا				1	
	MORTH Specification No.201 (P.No.138, I.No. 18.10 of PW, P&IWTD	SP 201	18 10)	-			,		
	Ch: 0 to 750	SR 201	18 - 19)	1 750.00	20.00				
	Ch 1500 to 2600			1 1100.00	20.00		1.50	1	
				1100.00	20.00		2.20 3.70	1	
						Sav	4.00	27300.30	109201
1.08	Dismantling A.C. sheet roofing and stacking the material within a radius of 50m including cost of materials,	Sqm				Day	4.00	27300.30	109201
	labour, HOM complete as per specifications.								
	(P.No.269, I.No. 37.42.3 of PW, P&IWTI Zinc Sheets	SR 20	018 - 19)						
	At Ch: 250			84 60	5.00		122.00		1
				1 84.60 1 39.60	5.00		423.00		
			-	39.60	3.00		118.80		
				1		Con	541.80	101.01	
.09	KSRRB M200-17.1: Dismantling of	Tonne		_		Say	542.00	104.94	56877
	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	_							
	unserviceble material and stacking the serviceble material with all lifts complete as per specifications. v) Steel work in all types of								
	Sections upto a Hight of 5m above plinth level excluding Cutting of Rivet A. Including dismantling.						4.5		
	(P.No.140, I.No.18.33 of PW,P&IWTD S.1	R 2018	- 19)		-	-			
	Removing of Bus shelter		3	1394.12	-		4.182	2006.58	8392.0
10	KSRRB 200-1: Cutting of trees girth E	ook .							
	including cutting of trunks, branches and removal of stumps roots stacking	acii			1 2.				
	of serviceble materials earth filling in				*				
	the depressions / pit, labour charges complete as per specifications.	- 1							
	MORTH Specification Clause 201 / Chapter 2. Girth from 300mm to 600mm							2	
		- 1			1				

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BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

Sl.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
	KSRRB 200-2: Cutting of trees girth including cutting of trunks, branches and removal of stumps roots stacking of serviceble materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Clause 201 / Chapter 2. Girth from 600mm to 900mm							2 4	
<u> </u>	(P.No.138, I.No.18.2 of PW,P&IWTD SI	R 2018	19)				20.00	077.00	20170
1				-			23.00	977.32	22478.0
1	KSRRB 200-3: Cutting of trees girth including cutting of trunks, branches and removal of stumps roots stacking of serviceble materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Clause 201 / Chapter 2. Girth from 900mm to 1800mm	Each					2		
	(P.No.138, I.No.18.3 of PW,P&IWTD SI	2018 -	19)					415	
-				-	-	-	31.00	2377.58	73705.00
1.13	KSRRB 200-4: Cutting of trees girth including cutting of trunks, branches and removal of stumps roots stacking of serviceble materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Clause 201 / Chapter 2. Girth from 1800mm to 2700mm	Each							
	(P.No.138, I.No.18.4 of PW,P&IWTD SI	2018 -	19)						
							39.00	3698.34	144235.00
1.14	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. In the Asphalt surface road including cost of materials, labour, HOM complete as per specifications.	Cum			e.		•		
	(P.No.269, I.No.37.38 of PW,P&IWTD &	P 201	0 10)		-		-		
	Eastern Side	3.10 201	0 10)						
	Ch 0 to 300		1	300.00	3.80	0.15	171.00		
	Ch 300 to 825		1						()
	Ch 825 to 900 Ch 1200 to 1250		1			0.15 0.15	73.13		
	Ch 1275 to 1400		1			0.15	55.69		
	Ch 1450 to 1500		1				30.75	, A	•
	Ch 1520 to 1950		1	200100		0.15	110.30		January C.
	Ch 1975 to 2125		1			0.15	11.25	1	
	Ch 2175 to 2375 Ch 2425 to 2550		1			0.15	25.20 11.25		
-	Western Side			120.00	0.00	0.15	11.20		
-	Ch 425 to 550		1	125.00	0.60	0.15	11.25	-	
	Ch 1000 to 1150		1			0.15	99.00		
	Ch 1225 to 1325		1	100.00	5.26	0.15	78.90	1.	
	Ch 1225 to 1375		1			0.15	44.55		
	Ch 1375 to 1525		1			0.15	66.15		
	Ch 1525 to 1950					0.15	175.31		
	Ch 2400 to 2475		1	-		0.15	16.05		
	Ch 2525 to 2575 For Cross Ducts		5				70.05 ME60386	ನಿತರಿಸಲಾಗಿ	ದೆ"
-	I OI OI OSS D'ACES		8			20 00 00 00 00 00 00 00 00 00 00 00 00 0	62.44		1.51.55
						Say	1499.91	475.94	713910.00

1.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity		Amount in Rs.
				III III	*** ***	*** ***		-,1	
_	Cutting of road surface for pipeline	Cum		-					
5	trenches and disposing of the	Culli						: 1	
	excavated stuff as directed including								
	barricading, danger lighting etc. In			1,432				1, 1,	*:
	the Macadam road including cost of			200			The state of the s		
	materials, labour, HOM complete as								
	per specifications.								
	(P.No.269, I.No.37.37 of PW,P&IWTD	S.R 20	18 - 19)					-	
	Eastern Side					0.00	0.40.00	-	
	Ch 0 to 300			1 300.00	3:80				
	Ch 300 to 825			1 525.00	4.20				,
	Ch 825 to 900			1 75.00					
	Ch 1200 to 1250			1 50.00				+	
	Ch 1275 to 1400			1 125.00					
	Ch 1450 to 1500			1 50.00 1 430.00			220.59		
	Ch 1520 to 1950			1 430.00					+
	Ch 1975 to 2125		-	1 200.00					
	Ch 2175 to 2375		-	1 125.00					
_	Ch 2425 to 2550		-	1 120.00	0.00	0.00	-	1 .	
_	Western Side	_		1 125.00	0.60	0.30	22.50		
	Ch 425 to 550			1 150.00					
	Ch 1000 to 1150		-	1 100.00					
	Ch 1225 to 1325	-	-	1 150.00	-				
	Ch 1225 to 1375	-							
	Ch 1375 to 1525	-	-	1 150.00			A 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		
	Ch 1525 to 1950			1 425.00		_			
7	Ch 2400 to 2475			1 75.00					
	Ch 2525 to 2575			1 50.00					
	For Cross Ducts			5 50.20					
				8 32.52	1.60	0.30			
mi gr							2999.82		050000
					b	Say	3000.00	316.94	950820
		-	-					-	
16	TIOTHE TIEST OF	Nos.			•				
	Telephone / Electric Poles								
	including excavation and dismantling	5				3.			
	of foundation concrete and lines under								1 8
	the supervision of concerned							1	
	department, disposal with all lifts and	II .							
	stacking the serviceable and							1	
	unserviceable material separately	7	1				1 .	1	
	complete as per specifications.	-	1			7		1	
	MORTH Specification No. 202	1						3.5	
									1222
	(P.No.141, I.No.18.57 of PW,P&IWTD	S.R 20	18 - 19)		4		186.00		
_	A WIND TO STATE OF THE PARTY OF				1.		Total Amoun	t	7241832

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Assi. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE

BANGALORE

1.	Sl. No.	Unit	No.	Length	Breadth	97	Quantity	Rate	Amount
0.				in m	in m	in m		in Rs.	in Rs.
00	Construction of Missing Link of the		pound						
01	KSRB 2-2.1: Earthwork excavation by								
	manual means for foundation of								
	buildings, culverts, water supply and								
	sanitary lines and electrical conduits,								
	etc.either in pits or in trenches 1.5m	1	1		1				1
	and above in width, in ordinary soil		1						
	not exceeding 1.5m in depth including								
	dressing the bottom and sides of pits						1 11 11		
	and trenches, stacking the excavated								1
	soil clear from edges of excavation			1					
						0 10			
	with lead upto 50m including breaking								
	of clods complete as per specifications.								3 3
	No.KBS 2.1(a) / 2.3.5	1					3.5		1 1
	(P.No.6, I.No.2.3 of PW,P&IWTD S.R 2	018 - 1	9)			Avg.		-	7 7 7
				1 1083.00	0.90	1.50	1462.05		
						Say	1462.50	316.94	463525
)2	KSRB 2 - 2.2: Earthwork excavation	Cum							and the second
	by manual means for foundation of		1						
	buildings, culverts, water supply,	719					1 2 2 4 7 1	2	400
	sanitary lines and electrical conduits				191.3				
	etc, either in pits or in trenches 1.5m				U			_ Sul 188	li la B
	and above in width, in hard soil not	1	1	1					
	exceeding 1.5m in depth including		1						
	dressing the bottom and sides of pits								
	and trenches, stacking the excavated		1					2.0	
	soil clear from edges of excavation		1						
	with lead upto 50m. including								100 Page 100
	breaking of clods complete as per						- A-2	1 1 X	12.7
	specifications. No. KBS 2.1(b) / 2.3.5	. 2					, I		
	(P.No.6, I.No.2.4 of PW,P&IWTD S.R 20	018 1	D)						
	1	010 - 13	1	1 1083.00	0.90	1.05	1023.44		
				1000.00	0.00	Say	1023.44	475.94	487125.
_	YOUR	_							
3	KSRB 4 - 1.1: Providing and laying in	Cum					•		
	position plain cement concrete of Mix			1, 1					
	1:2:4 with OPC cement @ 240kgs,		1	1 "	- 1				
	with 40mm and down size graded			1 1					
	granite metal coarse aggregate		1				1		
	@0.878Cum and fine aggregates @						1		
	0.459Cum machine mixed, concrete			1	1		1	3.4	
	laid in layers not exceeding 15cm.								
	thick, well compacted, in foundation,			1				3	
	including cost of all materials, labour,								
	HOM, curing complete as per								
	specifications. Specification No. KBS)	
				128			1		
	4.1, 4.2					1		5	
	(P.No.13, I.No.4.1 of PW,P&IWTD S.R 2	2018 - 1	9)	1		-			
	Dill Z			1 1083.00	0.90	0.15	146.21		
		4 - 1			0.00	Say	146.50	: 5599.98	820397.0
									020001.0
	KSRB 4-6.4: Providing and removing	Sqm							7
	centering, shuttering, strutting,			1	1				
	propping, etc. and removal of form	1			1				
	work for vertical surface such as walls	1		1 1			1		
	at any thickness, including attached	=)					- 1		
1	pilasters, buttresses, plinth and string	- 1		1 " 1				2 .	
	courses cost of all materials, labour	1							
	complete as per specifications.	1		1					
	Specification No.KBS 4.6.2	- 1							
. [3 6 9				, -		
		2010	10)		MAN AND AND AND AND AND AND AND AND AND A				
	(P.No.16 I.No.4.31 of PW, P&IWTD SR 2	2018 - 1	1	1083.00		1.00	10.00		
	O 1 D			1 1083 001	22	1.80	1949.40		
	Grade Beam								
	Grade Beam RCC Band		1	1083.00	66	0.30 මේ ක්ර්	324.90	ವಿತರಿಸಲಾಗಿ	

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) SI.		Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
) 2.0)5	KSRB 4.2.7: Providing and laying in position reinforced cement concrete of								
1		design mix M25 with OPC cement @								
). -	-	340kgs, with 20mm and down size graded granite metal coarse	ı							
2-1		aggregates @ 0.70Cum and fine								
)		aggregates @ 0.47Cum, with	1							
1		superplasticiser @ 3lts Conforming to								
)		IS: 9103 - 1999 Reaffirmed - 2008.								
1		machine mixed, concrete laid in layers					100		3. 4	
)		not exceeding 15cm thick, vibrated for							- 17	
1		all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and		1	F					
)		Beams, Retaining Walls, Return		100000	172			1 mm (1)		
V .		Walls, Walls (any thickness) including						- 1144		
)		attached pilasters, columns,								
		lintels, pillars, posts, struts,					V			
)		buttresses, string or lacing courses,								
		parapets, coping, bed blocks, anchor			1000			7 15 1		
1		blocks, plain window cills, fillets etc.							De to	
1		including cost of all materials, labour,								
1		HOM of machinery, curing, complete							44.1	
, !		but excluding cost of reinforcement as per specifications.								
1		Specification No. KBS 4.1, 4.6								
1		Specification 110. 1120 4.1, 4.0								
		(P.No.14, I.No.4.12 of PW, P&IWTD SR	2018 -							
		For Grade Beam		1	1083.00	0.75	0.90 Say		6407.70	4687233.00
2.0		A STATE OF THE PARTY OF THE PAR	Cum							
-		constructing granite / trap / basalt size			1000			30.0		
		stone masonry in foundation with							7 - 7	
		cement mortor 1:6, stone hammered								
		dressed in courses not less than 20cm		1						
		high, bond stones at 2m. apart in each course including cost of materaials,		1						
		labour, curing complete as per			L 11 1 1					
		specifications.								
		Specification No. KBS 5.1.13.								
		(P.No.25, I.No.5.6 of PW, P&IWTD SR	2018 - 1	(9)						
-	1.	We can Re Use the SSM Quantity		1	1083.00	0.60	1.35 Say	877.23 877.50		
12.0		KSRB 4.2.1: Providing and laying in	Cum		-		Say	877.00	-	
2.0		position reinforced cement concrete of								
		Design mix M25 with OPC cement @								
		340kgs, with 20mm and down size							40	
		graded granite metal coarse			1 11 11 11				**	
000		aggregates @ 0.70Cum and fine								
1		aggregates @ 0.47Cum, with								
		superplasticiser @ 3lts Conforming to IS: 9103 - 1999 Reaffirmed - 2008, at		-						
100		machine mixed, concrete laid in layers								
1		not exceeding 15cm thick, vibrated for				1 1		5 8 8 6	(1)	1-1
1		all works in foundation for footings,							- 2	
-		pedastals, retaining walls, return						4		
		walls, walls (any thickness) including			K 4					
7		attached pilasters, columns, pillars,		14						1
1		posts, struts, buttresses, bed blocks,			14			1	25	
		anchor blocks and plinth etc. including					. 1	1	1	1
		cost of all materials, labour, HOM of								1 2 2 2
4		machinery, curing, complete but						1		
100		excluding Cost of reinforcement as per					- 1			
-		specifications. Specification No. KBS			H IL _ 1				4.0	5 - 1
		4.1, 4.6							,	1,
7		(P.No.14, I.No.4.10 of PW, P&IWTD SR For RCC Band	2018 -	19)	1083.00	0.60	0.15	97.47		
1	1	ror noo band		1.	1003.00		"-Say		6160 72	600670.00
								mont occord	اور پرسو	DAICEN CO

No.		Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
2.08	KSRB 4.9.2: Providing TMT Stee Reinforcement for RCC work including straightening, cutting	k			144 111	m m		in Rs.	in Rs.
) 7	bending, hooking, placing in position lapping and / or welding wherever	,							
	required, tying with binding wire and anchoring to the adjoining memebrs	3							
T	wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of	1		*					
7	materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500					r 1			la o i i
1	- 10 COLOR								
	(P.No.18, I.No.4.46.2 of PW, P&IWTD S Grade beam @ 120Kg/Cum	SR 2018	- 19)						-
	RCC Band @ 40Kg/Cum			-			87.72		
_							3.90		
109	KSRB 5.3-3: Providing and	Cum				- V	91.62	75223.96	6892155.
1	constructing granite / trap / basalt size stone masonry in basement with					- 1	- 1		
T	cement mortor 1:6, edges of stones					- 1		1	
776	chistle dressed in courses not less								7.1
	than 15cm high, bond stones at 2m								
10	apart in each course including cost of materaials, labour, curing complete							672 5	* 1
	asper specifications. Specification No. KBS 5.1.13.	,					1		
	(P.No.25, I.No.5.9 of PW, P&IWTD SR 2	018 - 19)			_		- /	
_				895.80	0.45	1.15	463.58		
2.10	KSRB 4-1.6 : Providing and laying in	Cum				Say	464,00	5811.98	2696759.0
-	position plain cement concrete of mix								
	1:2:4 with cement @240kgs, with				1		1	-	
-1-	20mm and down size graded granite metal coarse aggregates @0.878Cum							-	
	and fine aggregates @0.53Cum					-			
-	machine mixed, concrete laid in layers						1		
	not exceeding 15 cms. thick, well	- 1							
-	compacted, in foundation, plinth and	- 1		1					
1	cills, including cost of all materials, labour, HOM of machinery, curing							7	
	complete as per specifications.				7		- 1		
	Specification No. KBS 4.1, 4.2								
	(P.No.13, I.No 4.6 of PW, P&IWTD SR 2	2010 16							
181	For Basement Coping Concrete (DPC)	2018 - 18	1	895.80	0.45	0.15	60.47		
4							00.47		
2.11	KSRB 5.4-4: Providing and C	um				Say	60.50	5747.32	347713.00
	constructing granite / trap / basalt size	V-1000						1.	
	stone masonry in Super Structure								
	with cement mortor 1:4, edges of stones chistle dressed in courses not							, 1	
	less than 15cm high, bond stones at				- 1			7. 30	
1	2m apart in each course including cost					1			7 44
	of materials, labour, scaffolding,				- 1				7 5 7
-	curing complete as per specifications. Specification No. KBS 5.1.13.						824		
7	(P_No.25, I.No.5.13 of PW, P&IWTD SR 20	018 - 190	-						76 1
	SSM Column @ Every 4m c/c	13)	272	0.60	0.60	2.30	225.22		
-						G .31/1	225 221		
	SSM Column @ Every 28m c/c		40	0.60	0.60	2.30	33.12		-

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Asst. EXECUTIVE ENGINEER BRUHAT BANGALORE MAHANAGARA PALIKE

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Sl. No.	SI. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
) 2.12	KSRB 6-6.3: Providing and constructing Burnt Brick Masonry with approved quality of modular bricks of standard size of class designation 7.5 Newton per Sqmm (Machine moulded Wirecut Bricks) with cement mortar 1:4 for basement and super structure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2						,	TH KS.	in Ks.
	(P.No.30, I.No 6.21 of PW, P&IWTD S	R 2018	- 19)						
-	D. 1		1	2206.60	0.23	1.00	507.52		
-	Deduct 40% for Voids Area					2.00	-203.01	-	
) [304.51		
-						Say	305.00	10901.04	3324817.
2.13	KSRB 4-1.5: Providing and laying in	Cum							
	position plain cement concrete mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69Cum and fine aggregates @ 0.43Cum machine mixed, concrete laid in layers not exceeding 15cm thick, well compacted in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1,4.2 (P.No.13, I.No 4.5 of PW, P&IWTD SR Coping Above Brick wall Above SSM Column (KSRB 15.1.1: Providing flush Spointing 20mm deep, to square rubble, course or uncoursed stone masonry with cement mortar 1:3, after aking joints to depth of 20mm nicely ining, including cost of materials, abour, curing complete as per	2018 - 1	9) 1 743	2206.60 0.60	0.23	0.10 0.10 Say	50.75 26.74 77.49 77.50	5647.68	437695.00
r s	pecifications.	- 1	1	- 1	. 1			1	
	P.No.115, I.No.15.1 of PW, P&IWTD SR	2019	10)	-					1 -
F	or Basement	2010 -	2	895.80	_	115			
F	or Super structure		1486	0.60	•••	1.15 2.30	2060.34		
			- 100	0.00		2.30	2050,29 4110.63		
-						Say	4111.00	149.46	61 4490 00
15 K	SPR 2 4: P-611: 11 11					Duj	4111.00	149.46	614430.00
ez ez w u	SRB 2.4: Refilling available earth Coround pipeline, cables in layers not acceeding 20cm in depth, compacting ach deposited layer by ramming after attering with lead upto 50m and lift oto 1.5m including cost of all labour amplete as per specifications.	am				-			
100	N. T. I.V. O. I. O. I.						1 1	1	
(P	.No.7, I.No.2.11 of PW, P&IWTD SR 20	18 - 19)							
110	or foundation						670.35		
					- In the second	Say	670.50	128.26	85998.00

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Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount
2.16	KSRRB M100-4.1: Cost of Haulage excluding loading and unloading MORTH Chapter 100/1 (Lead upto 19Km) for Earth(Excavated Soil)					in m		in Rs.	in Rs.
	(P. No. 136, I.No. 17.4 of PW ,P & IWTI	O SR 20	18-19)					-	
_	(19*1.28*2) = 48.64						829.00		40322.5
3.00	Laying of Utility Ducts (Pipes for S	torm V	Vater Drai	n. Power C	ables and	OFC) as	Total Amount		24006352.5
3.01	KSRRB M300 - 14: Excavation for	Cum		1	I I	Or c) ar	ld Cross Ducts		
	roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications.		(A)		±85 100 ± 0	4			e carl
-	MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW,P&IWTD S	D 0016	10)						
	Western side	.R 2018	3-19)					4.7.	
-	For Storm Water Drain (900mm) For Utility Ducts		1	2575.00	1.20	1.20	3708.00		
	Eastern side		1	2575.00	0.70	0.95	1712.38		
	For Storm Water Drain (1200mm)		1	2575.00	1.80	1.50	6952.50		11
	For Utility Ducts	,	1	2575.00	0.70	0.95	1712.38		
	For Catch Drain on both sides (For every 30m interval)		173	1.00	1.00	0.65	112.45		
	For Storm Water Drain Chamber on Western side (For every 10m interval)(900mm dia)		258	1.80	0.60	1.00	278.10		
	For Storm Water Drain Chamber on Eastern' side (For every 10m interval) (1200mm dia)		258	2.10	0.30	0.90	146.00		
	Inspection Chamber for OFC lines (40m interval) on both sides		64	1.50	0.80	0.80	61.80		
10		_	64	1.50	0.80	0.80	61.80		
	Inspection Chamber for Power line (40m interval) on both sides		64	2.50	0.80	1.10	141.63	-	
			64	2.50	0.80	1.10	141.63		
-		_					15028.65		
						Say	15029.00	43.46	653160.34
	KSRRB M2100 - 13: Providing and Callaying Plain / Reinforced Cement Concrete mix 1:2:4 with OPC cement @240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including cost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications complete as per Drawing and Cechnical Specifications MORTH Specification No. 1500, 1700 & 2100	ım							
1	P.No.222 , I.No.27.24 of PW,P&IWTD S.R	2019	19)					'	
	access Chamber for SWD (10m)	2018 -	258	1.80	1.80	0.10	20.12		
	nterval) (900mm dia)		200	1.60	1.00	0.10	83.43		

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Asst. EXECUTIVE ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

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No.		Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amoun
1_	Access Chamber for SWD (10m interval) (1200mm dia)		258	-			113,56	in Rs.	in Rs.
1	Inspection Chamber for OFC lines (40m interval) on both sides		64	1.50	1.50	0.10	14.48		
			64	1.50	1.50	0.10	14.40		1
	Inspection Chamber for Power line (40m interval) on both sides		64	2.50	1.50		14.48 24.14		
			64	2.50	1.50	0.10			
	For Catch Drain on both sides (For every 30m interval)		173	1.00	1.00		24.14 · 17.30	the second second second	
					-				
-						Say	291.54 292.00	1 = 100 + 0	
3.03	KSPPR M2100 16 0 P					Day	292.00	5409.18	15794
	KSRRB M2100 - 16.2: Providing and laying Plain / Reinforced Cement Concrete M25 with OPC @ 340 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @0.47Cum, with superplasticizer @3lts Conforming to IS - 9103 - 1999 Reaffirmed - 2008 in Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH specification No.1500, 1700 & 2100	Cum							
	(P.No.223, I.No.27.29 of PW,P&IWTD S. Access Chamber for SWD (10m interval) (900mm dia)	R 2018	- 19)						
	Raft	-	258	1.00					
_	Wall		258	1.60	1.60	0.15	98.88		
	Access Chamber for SWD (10m interval) (1200mm dia)		200	6.40	0.15	1.85	457.32		
	Raft		258	1.00					
	Wall			1.90	1.90	0.15	139.44		
	Inspection Chamber for OFC lines		258	7.60	0.15	2.05	601.78		-
	(40m interval) on both sides		1				-		
	Raft								
	Wall	-	64	1.30	1.30	0.15	16.32		
	Inspection Chamber for OFC lines		64	5.20	0.15	1.50	75.32		
	(40m interval)								
	Raft		0.4	1.00					
	Wall	_	64	1.30	1.30	0.15	16.32		ole-
	Inspection Chamber for Power line		04	5.20	0.15	1.50	75.32		
	(40m interval) on both sides		100						
	Raft		64	2 20	1.00	0.15			7
	Wall		64	7.20	1.30	0.15	28.87		
	Inspection Chamber for Power line (40m interval)			1.20	0.15	1.70	118.19		-4-4-
	Raft		64	2.30	1 20	0.15			
	Wall		64	4.86	0.15	0.15 1.70	28.87		
6	For Catch Drain on both sides (For every 30m interval)			4.00	0.10	1.70	79.78		
l	Raft	-	170	0.00					
	Wall		173 173	0.80 3.20	0.80	0.15	16.61		
17			1.7.71	2 0001	O 3 M	0 10			
-			173	3.20	0.15	0.40	33.22		
		-		3,20	0.15	Say	33.22 1786.23 1786.50		

3.04		Unit	No.	Length		h Depth	Quantity	Rate	Amount
	KSRRB M2200-6: Providing TM	T m		in m	in m	in m		in Rs.	in Rs.
	Steel Reinforcement for RCC Wor.	Lionne				ALL LA COLOR	9 9		144 465.
	including straightening, cutting								
	bending, hooking, placing in position	21					1 - 1 - 1 -	1 7 7	
	lapping and / or welding whereve	r	10	Land In					
	required, tying with binding wire and	4						7 17 17	
	anchoring to the adjoining members	0			1				
	wherever necessary complete as ner	-	i i	1		-	100000000000000000000000000000000000000		1
	design (laps, hooks and wastage shall	1						1 2 3 - 3	
	not be measured and paid cost of	r							
	materials, labour, HOM complete as								
	per specification.	1 1							
	MORTH Specification No.1600 & 2200 TMT Bars Fe 500		10		1		2.750		
	IMI Bars re 500								
	(P.No. 229, I.No. 28.8, 2 of PW, P&IWTD	S.R. 201	8 . 19)						
	Consider 75kg per Cum	J.10 201	0 - 13)	T					
				-		-			
-						Say	133.99	72326.98	969091
.05	VCDDD Mico it o								
.00	KSRRB M100-4.1: Cost of Haulage	Cum				-			
	excluding loading and unloading				10				
	MORTH Chapter - 100/1 (Lead upto	,					1		
	19Km) for Earth(Excavated Soil)			1	1	1		1	
	(P. No.136 I.No. 17.4 of PW, P&IWTD S	P 2010	10)						
	For Excavated Earth	5.R 2018-	19)						7
	(19*1.28*2) = 48.64						5394.85		
06	KSRB 2.4: Refilling available earth	-				Say	5395.00	48.64	000410
200	around pipeline, cables in layers not	Jum		1.				40.04	262412.
	exceeding 20cm in depth, compacting			1					
	each deposited layer by ramming after			1					
- 1	watering with lead upto 50m and lift			1 1		- 1			
	upto 1.5m including cost of all labour	- 1							
1	complete as per specifications.	1		1 - 1					
				1					
-						1	7.5	4	
	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2	018 - 19)	-		-				
	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2 Eastern side	018 - 19)							1 6 1
1	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2 Eastern side	018 - 19)	1	1.13112	2575		2012 624		
j	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2 Eastern side	018 - 19)	1 4		2575 2575		2912.634		
	Eastern side	018 - 19)	1	0.03142	2575		323.626		
	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2 Eastern side	018 - 19)	1 4	0.03142 0.006363			2912.634 323.626 98.3013975		
	Eastern side	018 - 19)	1 4 6	0.03142 0.006363 0.636255	2575		323.626 98.3013975		
	Eastern side	018 - 19)	1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625		
	Eastern side	018 - 19)	1 4 6	0.03142 0.006363 0.636255	2575 2575 2575		323.626 98.3013975		
	Eastern side	018 - 19)	1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975		
1	Western side		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626		235676 6
P	Western side Providing and fixing RCC Precast So		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P	Western side Providing and fixing RCC Precast Squab of 100mm thick for drain in		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P	Western side Providing and fixing RCC Precast Squab of 100mm thick for drain in the ment concrete M20 using graded		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P	Vestern side Providing and fixing RCC Precast Squab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P s. ce gr	Vestern side Providing and fixing RCC Precast Square lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P si ce gi	Vestern side Providing and fixing RCC Precast Square lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including the steel reinforcement, including the steel reinforcement and concrete finished surfaces on both		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P s. ce gr	Vestern side Providing and fixing RCC Precast Square lab of 100mm thick for drain in the ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including the work, lift charges, curing and concrete finished surfaces on both desetc, complete and as per the		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P s. ce gray with for considering single sin	Vestern side Providing and fixing RCC Precast Square lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including the steel reinforcement, including the steel reinforcement and concrete finished surfaces on both		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P s.s. ce gray w for considering did	Western side Providing and fixing RCC Precast lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both des etc, complete and as per the rections of Engineer in-charge.		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.6
P ss. cc gr. ww fo cc siidi	Providing and fixing RCC Precast lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both des etc, complete and as per the rections of Engineer in-charge. BMP Approved Rate excess Chamber for SWD (10m)		1 4 6	0.03142 0.006363 0.636255 0.03142 0.006363	2575 2575 2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85 9634.15		235676.6
P ss. cc gr. ww fo ccc siidi	Providing and fixing RCC Precast lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both des etc, complete and as per the rections of Engineer in-charge. BMP Approved Rate excess Chamber for SWD (10m)		1 4 6	0.03142 0.006363 0.636255 0.03142	2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85		235676.63
P si ce gu w fo co si di la Acción in	Providing and fixing RCC Precast lab of 100mm thick for drain in ement concrete M20 using graded ranite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both des etc, complete and as per the rections of Engineer in-charge.		1 4 6	0.03142 0.006363 0.636255 0.03142 0.006363	2575 2575 2575 2575 2575 2575		323.626 98.3013975 1638.356625 323.626 98.3013975 5394.85 9634.15		235676.6

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	[
	Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
		Inspection Chamber for OFC lines (40m interval) on both sides		129	1.30	1.30		217.59	;	
		Inspection Chamber for Power line (40m interval) on both sides		129	2.30	1.30		384.96		
								2191.33		
						Hamilton of head	Say	2191.50	1724.00	3778146.00
	3.08	Supplying, laying and jointing HDPE Pipes of specified grade and						*		
	1	conforming to IS: 4984 - 1995 with latest amendments and conveying to work site including loading and								
	1	unloading at both destinations and rolling and lowering into trenches,								
		laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts								
	1	including encasing the pipe alround to a depth of not less than 15cm. with						41		
		soft gravel or selected earth available from the excavation, testing and								
		commissioning. The rate is exclusive of required specials and fittings		3					12.1	
		wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will			-					
		make his own arrangements for procuring water for testing) etc. for:							* 4	
		PE - 100 PN 6.0							-	
ŀ	-	/ D No the Dween en cold to The					-			
I		(P.No.125, BWSSB SR 2017-18, I.No. 6. i) 6*90mm dia for OFC / Telecom / Surveillance	1 - K06	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5150.00	060E)		30900.00		
		Deductions of Chamber Portion		1	129.00			-129.00		
								30771.00	256.25	7885068.75
H		ii) 4*200mm dia for Power Cables		4	5150.00			20600.00		
1		Deductions of Chamber Portion		1	129.00			-129.00		A
								20471.00	1016.07	20799998.21
	1	iii) 2*200mm dia for Power Cables (Toilets - UGD, Electrical)		2	35.00			70.00	1016.07	71125.00
		iv) 1*160mm dia for Street Light Cables		1	5150.00			5150.00		
H		Deductions of Chamber Portion		1	64.50		**	-64.50		4.1
	3.09	Providing and laying reinforced n	_					5085.50	670.54	3410009.38
ľ		cement concrete pipe NP3 for culverts including pointing ends, and	n					1 8 1		
		fixing collars with cement mortar 1:2 including cost of all materials, labour,								4 + 1
		curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification				-				
L		No.1000 / 2300								
		(P.No.254, I.No.34.6.6 and 34.6.3 of PW 8	& IWTI	O SR 2018 - 1						
1		1200mm dia pipe Deductions of Chamber Portion		1	2575.00			2575.00		
		Councilous of Chamber 1 of thon		1	412.80		-	-412.80 2162.20	8022 00	19316402.90
-								2102.20	0000.00	13010402.90

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Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Charles and the Control of the Contr	Quantity	Rate	Amount
	900mm dia pipe		1		in m	in m		in Rs.	in Rs.
	Deductions of Chamber Portion		1	2575.00			2575.00		
	and the same of th		1	335.40			-335.40		
	300mm dia Pipe for Connection at		717				2239.60	5832.12	13061615.9
	10m Interval		515	1.20			618.00		1004892.
3.10	Providing, supplying and fixing MS Surface Grating of size 500mm x 400mm at gully trap along the road surface as per approved drawing including transportation to site, all charges of labor, loading and unloading etc. complete for fixing as indicated in the drawing with all lead and lifts as per detailed tender specifications and as directed by the engineer.	Sqm							
	BBMP Approved Rate		173					Annual services	
11		-	1/3	0.80	0.80		110.72	9300.00	1029696.00
: : :	Supplying PVC ringtite pipe F confirming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour, with all lead & lift including encasing the pipe alround to a depth of not less than 15cms with soft gravel or selected earth avilable from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS Contractor will make his own arrangements for procuring water for eesting).	·							
- (P.No 133, I.No. 1.10 of BWSSB SR 2017-1	9 MO1	0)					į.	
2	5 - 10 Kg/Cm2 (Class 5) avg. 5m	5 - M01							
lie	ength 70%		35			••	35.00	40.18	1406.25

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Sl.	Sl. No.	Unit	No.	Length	Breadth	100	Quantity	Rate	Amount
No.	1 10 5			in m	in m	in m		in Rs.	in Rs.
1	Construction of Cross Ducts KSRRB M300 - 14: Excavation for	C							-
3.12		Cum							
	roadwork in all types of soil by mechanical means including cutting			March 1				3	
	and loading to tippers, trimming		No. of the						
1	bottom and side slopes, in accordance				1				
	with requirements of lines, grades and		1 - 10		the same				
			No Bir			district to			1.0
	cross sections, and transportation with								
	a lead of 1km and complete as per						A STATE OF THE STA		
	specifications.								
-	MORTH Specification No. 301	7 D 001	2.481						
-	(P.No.143, I.No.19.14 of PW,P&IWTD S For Cross Ducts	5.R 201	8-19)						
-	At 45' Angle			00.00	0.00	1.00	00.00		
-	At 45 Angle		5	20.20	0.90	1.00	90.90		
		10.1	8	14.20	0.90	1.00	102.24 193.14		
					-	Say	193.50	43.46	8409.5
-					61 0.0	Say	100.00	40.40	0400.0
3.13	KSRRB M800-29.1. Providing and	m						de la lace	
1	laying of a reinforced cement concrete				OF THE				
4	pipe duct, 300mm dia, across the road								
	(new construction), extending from								
	drain to drain in cuts and toe of slope				Part Coll				
1	to toe of slope in fills, constructing								
7	head walls at both ends, providing a						3		
1	minimum fill of granular material								
	over top and sides of RCC pipe as per					5			
	IRC:98-1997, bedded on a 0.3m thick			HE	107-1				
	layer of granular material free of rock								
	pieces, outer to outer distance of pipe								
1	at least half dia of pipe subject to								
7	minimum 450mm in case of double								
	and triple row ducts, joints to be made								
	leak proof, invert level of duct to be								
	above higher than ground level to					-		-	
1	prevent entry of water and dirt, all as								
	per IRC: 98 - 1997 and approved								
	drawings complete as per								
	specificationsdo- Case -II : Double								
	row for two utility services	-							
	(P.No.186, I.No.24.35 of PW, P&IWTD 2	018 - 19	9)		N. C.				
	For Cross Ducts		10	20.20			202.00		
_			16	14.20			227.20	10000	
							429.20		
						Say	429.50	3382.46	1452766.57
.14	KSRB 2-4:Refilling available earth	Cum			ALL S				
	around pipe lines, cables in layers not			12 11 11	4 (4 4 7	STORE OF THE		1	7
5	exceeding 20cms in depth, compacting					DEN			
	each deposited layer by ramming after								
	watering with lead upto 50m.and lift								
						Buch			The second
	upto 1.5m. including cost of all labour			Sec. 22					
)	complete as per specifications.			A 1 1 1 1 1		to the same	de la companie de la		
	CD M = The annual control of the	2019 10))						
-	(P.No.7, I.No.2.11 of PW,P&IWTD S.R.	2018-15	5	20.20	0.90	0.46	41.81		
	For Cross Ducts		8	14.20	0.90	0.46	47.03		
-				7.1.20	0.00	0.10	*1.00		
	Deduct Pipe Area		10	20.20	0.14	4	-28.56		
	- court Tipe Area		16	14.20	0.14	4	-32.12		
				The Part of the Pa	THE PERSON NAMED IN		28.16		
						Say	28.50	128.26	3655.41

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Asst. EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

SI.	Sl. No.	Unit	No.	Length	Breadth	Depth	Quantity	Dat	T
No.				in m	in m	in m	Quantity	Rate in Rs.	Amount
3.15	Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite / trap / basalt material, mixing in a						Y	in Rs.	in Rs.
	mechanical mix plant at OMC, Carriage of mixed material to work								
	site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power								
	roller to achieve the 98% proctor density, complete as per Specifications.								
	Clause 401 of MORTH V Revision					- 1			
	(P.No.153, I.No.20.5 of PW,P&IWTD SR For Cross Ducts	2018 -							
			5 8	20.20 14.20	0.90	0.20	18.18 20.45		
						-	38.63		
3.16	KSRRB M400 - 17: Providing, laying,	Cum				Say	39.00	1994.92	77801.8
	spreading and compacting crushed stone aggregates of granite / trap / basalt to Wet Mix Macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials between		*	,			•		
	mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	(P.No.155, I.No.20.18 of PW,P&IWTD SR	2018-1	9)						4.4
	For Cross Ducts		5	20.20	0.90	0.25	22.73	7 1 1	
			8	14.20	0.90	0.25	25.56		
17. 1	KSRRB 500-9: Providing and applying Sc	ım		- (L) (1)			48.29	2001.28	96631.80
I s F	Pack Coat using 80/100 Grade Bitumen (VG10) on granular base such as WBM surfaces hot bitumen primed at 4kg per 10Sqm, heating bitumen in boiler fitted with spray set		2						
i i	excluding cleaning of road surface) ncluding cost of all materials, labour, HOM Complete as per specifications. Clause 503 of MORTH V revision								
0	I.No.21.9, Issue Rate as on 01 - 01 - 19)					-			
F	or Cross Ducts		5	20.20	0.90		90.90		
			8	14.20	0.90	and the second second	WW.DWI		

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) [S1. No.	Sl. No.	Unit	No.	Length in m	Breadth in m		Quantity	Rate	Amount
	KSRRB M500-17: Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500 - 10 complete in all respects complete as per specifications. MORTH Specificatin No. 507. Using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr -II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen			in m	in m	in m		in Rs.	in Rs.
)	(I.No.21.17.2, Issue Rate as on 01.01.20	10)							
	For Cross Ducts	19)	5	20.20	0.90	0.070	6.36		
)			8		0.90	0.070	7.16		
3.19	KSRRB 500-7: Providing and applying						13.52	7049.00	95301.07
) T) T) T) T	tack coat using 80 / 100 grade bitumen (VG 10) on the prepared black topped surfaces at 2.5kg per 10Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision				,				
A BELL	(I.No.21.7, Issue Rate as on 01.01.2019)							-	
	For Cross Ducts		5	20.20	0.90		90.90		
-			8	14.20	0.90		102.24		J. Barrier
T .	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. Using 120 TPH capacity Asphalt batch mix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)	Cum			"ಮಾನಿ	ಂತಿ ಹೆಕ್ಕು	ಕಾಯ್ದೆ ಆಡಿಯಲ್ಲಿ	, ವಿತರಿಸಲಾಗಿ	2456.74
-	(I.No.21.78.8, Issue Rate as on 01.01.201	9)					MA		
	For Cross Ducts	3)	5	20.20	0.00	0.04	(Uzy		done-
-	A OI OIUSS D'UCUS		8	14.20	0.90	0.04	4.09	-	146
			(31	14.201					
		•	0	14.20	0.30	Acct	XECUTIVE TENSOR	E 8036 92	62090 03

BANGALORE

SI. No.	Sl. No.	Unit	No.		Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
	Construction of Chamber	_		-	1	III III	m m	- ' '	in Rs.	in Rs.
3.21	KSRRB M300 - 14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications.								i	
-	MORTH Specification No. 301					4.9		14.00		
	(P.No.143, I.No.19.14 of PW,P&IWTD	S.R 20	18-19)						and the second	
171		-	-	26	1.50	1.50	1.60	93.60	Company of the Company	Cillian Care
			-				Say	94.00	43.46	4088
3.22	KSRRB 2100-13 Plain/ Reinforcement	C	-							
	cement concrete M15 with opc cement @ 240kgs, with 40mm down size graded grinite metal coarse aggregate @ 0.84 Cum and fine aggregates @ 0.56 Cum in open foundation including cost of all materials,labour,HOM curing,form works,scaffolding and centering complete as per drawing and technical specifications MORT&H Specification No.1500,1700, & 2100.					J. = =				
	(P. No.222 of INo 27.24 PW,P&IWTD SF	2018	- 19)	-					: '	
	The second of th	1 2010	- 13)	26	1.50	1.50	0.10		-	
				20	1.00	1.00	0.10 Say	5.85	. 5400 10	22155
							Say	6.00	5409.18	32455.
.23	KSRRB 2200-5.12. Providing and laying Design mix M25 with OPC @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47 Cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008	Ť.								
_	(P.No.227, I.No.28.7.12 of PW,P&IWTD S	SR 201	8 - 19)							
	Raft Side Walls			26	1.50	1.50	0.20	11.70		
	Side Walls	-		26	6.00	0.20	1.10	34.32		
		-		-			0	46.02	1	
				-			Say	46.50	5640.26	262272.
	KSRRB M2200-6. Providing T.M.T. T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do-TMT Bars Fe 500	onne								
					a					
	P.No.229, I.No.28.8.2 of PW,P&IWTD SR	2018	- 19)							
- (Consider 110kg per Cum							5.12		
		1							72326 08	260059 5

5.12 72326.98 369952.50 "ಮಾಹಿತಿ ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ

ASSI. EXECUTIVE ENGINEER LAGRAN PALIKE
BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
3.25 P	roviding and fixing RCC Precas	t Sqm		*** ***	III III	in m		in Rs.	in Rs.
S	lab of 100mm thick for drain i	n							
Ce	ement concrete M20 using grade	d	1		1			'	
gı	ranite jelly 20mm and down siz	e							
fo	rith steel reinforcement, includin	g	1	1			8 1		1
10	orm work, lift charges, curing and	d							1
co	oncrete finished surfaces on both	a l							1
di	des etc, complete and as per the	9							
Bi	rections of Engineer in-charge. BMP Approved Rate	+							
Fo	or Chambers	-							
	S. Chambers	+	26	1.50	1.50		58.50		
						Say	58.50	1724.00	100854.
4.00 Cd	onstruction of Footpath; Providi	ng and	Fixing of	New Kerb	Stones, B	ollards a	and Railing an	d Constru	95811810. ction of Tr
	SRRB M300 - 14: Excavation for								
ro	adwork in all types of soil by	Cum							
me	echanical means including cutting						1		
an	d loading to tippers, trimming			1					
bot	ttom and side slopes, in accordance								
wit	th requirements of lines, grades and								
cro	ess sections, and transportation with					- 1	1	- 1	
a	lead of 1km and complete as per					- 1	1	1	
spe	ecifications.			1				- 1	
MC	ORTH Specification No. 301				1		1		
(P.)	No.143, I.No.19.14 of PW,P&IWTD	S.R 2018	3-19)						
Ea	stern Side				Avg.				
Ch	25 to 325		1	300.00	3.00	0.45	405.00		
Ch	325 to 900		1	575.00	3.00	0.45	776.25		
	925 to 1175			250.00	1.35	0.45	151.88		
	1175 to 1225		1	50.00	2.70	0.45	60.75		
	1225 to 1425 1425 to 1500		1	200.00	3.00	0.45	270.00		
	1525 to 2600		1	75.00	1.40	0.45	47.25		
Was	stern Side		1	1075.00	1.60	0.45	774.00		
	25 to 100								
	100 to 200		1	75.00	3.00	0.45	101.25		
	200 to 300		1	100.00	3.00	0.45	135.00		
Ch :	300 to 400		1	100.00	3.00	0.45	135.00		
Ch 4	400 to 500	1	1	100.00	3.00	0.45	135.00		
Ch !	500 to 600		1	100.00	3.00	0.45	135.00 135.00		
	600 to 700		1	100.00	3.00	0.45	135.00		
	700 to 800 800 to 900		1	100.00	3.00	0.45	135.00		
	900 to 1000		1	100.00	3.00	0.45	135.00		
	1000 to 1100		1	100.00	3.00	0.45	135.00		
Ch 1	1100 to 1200		1	100.00	1.30	0.45	58.50		1 1 1 1 1
	1200 to 1300	-	1	100.00	2.37	0.45	106.65		
	1300 to 1400		1	100.00	3.00	0.45	135.00		
	1400 to 1500		1	100.00	1.35	0.45	60.75		
	1500 to 1600		1	100.00	2.70	0.45	121.50		
Ch 1	600 to 1700	. *	1	100.00	1.35	0.45	112.50		· · · · · ·
	700 to 1800		1	100.00	1.35	0.45	60.75		
	800 to 1900		1	100.00	1.35	0.45	60.75		
Ch 1	900 to 2000		1	100.00	1.35	0.45	60.75		
	000 to 2100		1	100.00	1.35	0.45	60.75		
	100 to 2200		1	100.00	1.35	0.45	60.75		
	200 to 2300		1	100.00	1.35	0.45	60.75	-	
	300 to 2400		1	100.00	1.35	0.45	60.75	-	
	400 to 2500 500 to 2600		1	100.00	1.35	0.45	60.75		
	ection Chamber for Street Light		120	100.00	1.35	0:45	60.75		
	es (40m interval) on both sides		129	1.00	1.00	0.72	92.70		
	treet Light Poles on both sides		100	1.10			,		
AUT ST	orece Digite I oles on both sides		406	1.40	1.40	1.20	954.912		
-							6051.39		
				1		Say	6051.50	43.46	262998.19



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1 50	51.	lov vi		-							
	No.	Sl. No.	Unit	No.		Length	Breadth		Quantity	Rate	Amount
	.02	KSRRB M2100 - 13: Providing and	0	-		in m	in m	in m		in Rs.	in Rs.
	.02	laying Plain / Reinforced Cement	Cum								
11		Concrete mix 1:2:4 with OPC cement		1						*	
- 1		@240kgs, with 40mm and down size					-			1.5	1 1 1 1 1
)1		graded granite metal coarse		1		13					
1		aggregates @ 0.84Cum and fine		1			1				de la
		aggregates @ 0.56Cum in Open		1							
1		Foundation including cost of all								4 4 4 5	
'		materials, labour, HOM, curing, form								the vilip	
) [works, scaffolding and centering				1)	27.0	1 1	
- 1	83	complete as per specifications		1				1			
1		complete as per Drawing and		1			1		V 12	200	
4		Technical Specifications		1							
		MORTH Specification No. 1500, 1700	•	1			1 1		1		
1		& 2100					1				
		2100									
) [(P.No.222, I.No.27.24 of PW,P&IWTD 5	S.R 201	8 - 19)		-	7				
,		For Street Light Poles		1		T		49.00	40.00		- 1
) 1		Inspection Chamber for Street Light			129	1.00	1.00		49.00		
		Cables (40m interval) on both sides			120	. 1.00	1.00	0.10	12.88		
			- 4						61.88	5409.18	334693.01
4.0	03	KSRRB M2100 - 16.2: Providing and	Cum						02,00	0400.40	004000.01
. (1)		laying Plain / Reinforced Cement									
		Concrete M25 with OPC @ 340 kgs,									
'		with 40mm and down size graded								1 .	
1		granite metal coarse aggregates @	1			1			W.		
1		0.70Cum and fine aggregates			-						
See		@0.47Cum, with superplasticizer @3lts	1						- 1		
		Conforming to IS - 9103 - 1999						1			
		Reaffirmed - 2008 in Open Foundation			1	*			1		
T.	1	complete as per Drawing and			- 1			- 1		1	
1	ľ	Technical Specifications including cost	- 1		- 1						
1	1	of all materials, labour, HOM curing,				1		- 1			
1	1	form works, scaffolding and centering	0 1					1		4 4 4	
1	- 1	complete as per specifications.	- 1			- 1		- 1		1	
1		MORTH specification No.1500, 1700 &	- 1			1		1			
	13	2100	- 1				- 1		42		
	_									1 -	
_		(P.No.223, I.No.27.29 of PW,P&IWTD S	.R 2018	8 - 19)							11.11.
]	Raft		129		0.8	0.80	0.15	12.36	1	
1	'	Wall		129		3.2	0.15	0.41	25.34		
L									37.70		-
_	1	For Street Light Poles			406	1.20	1.20	0.30	175.39		
-	_				406	0.60	0.60	0.90	131.54		
1_	_								344.63	5294.70	1824733.64
.0		Construction of granular sub-base C	Cum								
		Grading-V as Sub-base and drainage	- 1								
		ayer by Providing coarse graded			- 1	1				1	
		crushed stone aggregate of granite /				1					
		rap / basalt material, mixing in a						- 1			
T	r	nechanical mix plant at OMC,				- 1			1	-	1
, to	(Carriage of mixed material to work	- 1							1	
	s	site, spreading in uniform layers with					.			1	
1.	r	notor grader on prepared surface and						1	- 1		
		compacting with vibratory power							1	1	
		oller to achieve the 98% proctor									
	· d	lensity, complete as per	4			- 1	1			-	
T		Specifications.							1		
1	_	Clause 401 of MORTH V Revision									
_		P.No.153, I.No.20.5 of PW.P&IWTD SR :	2018 - 1	19)							
_		Castern Side			-	000.00	Avg.				
-		Ch 25 to 325	-	DISTRIB	1	300.00	3.00	0.20	180.00		
-		Ch 325 to 900 Ch 925 to 1175			1	575.00	3.00	0.20	345.00		
-		Ch 1175 to 1225			1	250.00 50.00	2.70	0.20	67.50		
		Ch 1225 to 1425		-	1	200.00	3.00	0.20	27.00 120.00		
-	-	Ch 1425 to 1500			1	75.00	1.40	0.20	21.00		
1		Ch 1525 to 2600			1	1075.00	1,60	0.20	344.00		
		Vestern Side			-	2010.00		6 a a	FOOTS AND OTHER	ವಿತರಿಸಲಾಗ	-9 TT
	- 1	vestern blue							OUCUS CHARLING		
		Ch 25 to 100			1	75.00	3.00	0.20	45.00	, macradal	10

Sl. No.	Sl. No. Ch 100 to 200	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
	Ch 200 to 300	-		100.00	0100	0.20	60.00	-	III Its.
-	Ch 300 to 400	-		100.00			60.00		
	Ch 400 to 500			100.00			60.00		
	Ch 500 to 600			100.00	9.00	0.20	60.00		
	Ch 600 to 700			100.00		-	60.00		
	Ch 700 to 800			100.00	-		60.00		
	Ch 800 to 900		1	100.00	3.00		60.00		
	Ch 900 to 1000			100.00	3.00		60.00		
	Ch 1000 to 1100		1	100.00	3.00	0.20	60.00		
	Ch 1100 to 1200		1	100.00	1.30	0.20	26.00		
2	Ch 1200 to 1300			100.00	2.37	0.20	47.40		
	Ch 1300 to 1400		1	100.00	3.00	0.20	60.00		
5 1	Ch 1400 to 1500	-	1	100.00	1.35	0.20	27.00		
	Ch 1500 to 1600		1	100.00	2.70	0.20	54.00		
	Ch 1600 to 1700		1	100.00	2.50	0.20	50.00		
	Ch 1700 to 1800	-	1	100.00	1.35	0.20	27.00		
	Ch 1800 to 1900		1	100.00	1.35	0.20	27.00		
	Ch 1000 to 1900		1	100.00	1.35	0.20	27.00		
-	Ch 1900 to 2000		1	100.00	1.35	0.20		-	
	Ch 2000 to 2100		1	100.00	1.35	0.20	27.00		
	Ch 2100 to 2200		1	100.00	1.35	0.20	27.00		
	Ch 2200 to 2300		1	100.00	1.35	0.20	27.00 27.00		
	Ch 2300 to 2400 Ch 2400 to 2500		1	100.00	1.35	0.20	27.00		
	Ch 2500 to 2000		1	100.00	1.35	0.20	27.00		
7	Ch 2500 to 2600		1	100.00	1.35	0.20			
1	Deduction of Street Light Chamber		129	0.80	0.80	0.20	27.00		
	Portion		115.0000	1000000000	0.00	0.20	-16.51	- 1	
							2007.00		
						Say	2207.39		
						Say	2207.50	1994.92	4403786.0
1.05 P	SRRB M400 - 17: Providing, laying, C	Cum							
S	preading and compacting crushed	- AND THE R. P. L.				1			
s	tone aggregates of granite / trap /		- 1	- 1	- 1	300			
b	asalt to Wet Mix Macadam		1	1	- 1		1		
01	position including	- 1	1	1					
3	pecifications including pre mixing the	1	1	1		1			
111	naterial with water at OMC in			1	1	- 1		- 1	
n	nechanical mix plant carriage of								
m	nixed materials by tipper to site.	*		1	9 14	34			
la	lying in uniform layers with paver in	- 1			1	- 1		- 1.	
sı	ub-base/base course on well prepared		- 1		- 1	1	1		
81	arface and compacting with vibratory							-	
ro	iller to achieve the decire to			1		1		1	
000	oller to achieve the desired density			1					
M	omplete as per specifications.		- 1	- 1	- 1				
14.1	ORTH Specification No. 406			1	- 1		<i>3</i> 8		
	36								9 7 5 9
(P	.No.155, I.No.20.18 of PW,P&IWTD SR	2018-19							
E	astern Side	2010-10							
CI	h 25 to 325	_			Avg.				
	h 325 to 900	_	1	300.00	3.00	0.25	225.00		
	n 925 to 1175		1	575.00	3.00	0.25	431.25		
	1 925 to 1175 1 1175 to 1225		1	250.00	1.35	0.25	84.38		· · ·
			1	50.00	2.70	0.25	33.75	-	
	1 1225 to 1425		1	200.00	3.00	0.25	150.00		
- Ch	1425 to 1500		1	75.00	1.40	0.25	26.25		
	1525 to 2600		1	1075.00	1.60	0.25			
	estern Side			2010.00	1.00	0.20	430.00		
Ch	25 to 100		1	75.00	2.00	0.05			
Ch	100 to 200		1		3.00	0.25	56.25		Control of the Contro
	200 to 300			100.00	3.00	0.25	75.00		
	300 to 400		1	100.00	3.00	0.25	75.00		
Ch	400 to 500		1	100.00	3.00	0.25	75.00		
Ch	500 to 500	_	1	100.00	3.00	0.25	75.00		
	500 to 600	_	1	100.00	3.00	0.25	75.00		
	600 to 700		1	100.00	3.00	0.25	75.00		
Ch	700 to 800	_	1	100.00	3.00	0.25	75.00		
	800 to 900	_	1	100.00	3.00	0.25	75.00	**	
	900 to 1000		1	100.00	3.00	0.25	75.00		
	1000 to 1100		1	100.00	1.30	0.25	32.50		
Ch	1100 to 1200		1	100.00	2.37	0.25	59.25		
	1200 to 1300		1	100.00	3.00	0.25	75.00		
	1300 to 1400		1	100.00		0.25	33.75		
	1400 to 1500		1	100.00		0.25			
Ch	1500 to 1600		1	100.00			67.50		
	The state of the s				2.00	0.25	62.50	10 5 TAD	ಕಲಾಗಿದೆ"
Ch	1600 to 1700		1	100 001	1 0=			100	
Ch	1600 to 1700 1700 to 1800	-	1	100.00		0.25	62.50 83.75 33.75	, m	

No.	SI. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amour
	Ch 1800 to 1900		. 1	100.00	500 00 00 00 00 00 00 00 00 00 00 00 00			D. Called S. Hills C. Phys.	in Rs.
	Ch 1900 to 2000		1	100.00			33.75		
	Ch 2000 to 2100		1	-			33.75		
	Ch 2100 to 2200	200	1	100.00	1.35		33.75		-
	Ch 2200 to 2300		1	100.00	1.35		33.75		-
	Ch 2300 to 2400		1	100.00	1.35		33.75 33.75		-
11-12-12-12	Ch 2400 to 2500		1	100.00	1.35		33.75		
_	Ch 2500 to 2600		1	100.00	1.35	-			
	Deduction of Street Light Chamber		129	0.80	0.80		33.75		
	Portion		102.7	0.00	0.00	0.20	-20.64		
							2759.24		
		•				Say	2760.00	2001.28	5523
1.06	KSRB 14.6-6: Providing and laying	Sqm							
	heavy duty interlock concrete			1		. 1			
- 1	paver block 60mm thick 300mm X		- 1		3	- 1	, 1		L
- 1	300mm using cement and course sand		1		1	- 1	1		
7	for manufacture of the d				1	- 1			
	for manufacture of blocks of approved				1				
	size, shape and colour with a			- 1	1	- 1			
	minimum compressive strength of 281							=	
	kg per Sqm over 50mm thick sand hed					1			
1	(average thickness) and compacting			. 1					
,	with plate vibrator having 3tons	1	1	. 1		- [1		
	compaction force thereby forcing part					1	1	s * u. l	
	of sand underneath to come up in	1		- 1					
li i	between isinte feel	- 1	1		1	- 1			
	between joints, final compaction of			1	1	- 1		4	
I.	paver surface joints into its final level,	- 7		1	1				
1	ncluding cost of materials, labour			1		- 1			
8	and HOM of machineries complete as			1			1		
p	per specifications.				- 1	1			
	Specification No. KBS		1			1	0)		
	Promise Lion No. NEB	- 1			1	1			
(P.No.103, I.No. 14.6 of PW,P&IWTD SR	2018-1	9)						
	Sastern Side	2010 1	-	-	4				
C	Ch 25 to 325		1	200.00	Avg.			1.	
	Ch 325 to 900			300.00	3.00		900.00		1
	Ch 925 to 1175		1	575.00	3.00		1725.00	1	L
	Ch 1175 to 1225		1	250.00	1.35		337.50	1.	
	Ch 1225 to 1425		1	50.00	2.70		135.00		
			1	200.00	3.00		600.00		
- 10	h 1425 to 1500		1	75.00	1.40		105.00		-
C	h 1525 to 2600		1	1075.00	1.60				Local man
W	Vestern Side			1010.00	1.00		1720.00		
C	h 25 to 100		1	75.00	3.00				
C	h 100 to 200		1	100.00	3.00	**	225.00		
C	h 200 to 300		1				300.00		
C	h 300 to 400		1	100.00	3.00	••	300.00		
	h 400 to 500	-	1	100.00	3.00		300.00	-	ALCON THE
	h 500 to 600		1	100.00	3.00		300.00		
C	h 600 to 700		1	100.00	3.00		300.00		
C	h 700 to 800		1	100.00	3.00		300.00		
CI	h 900 to 900	-	1	100.00	3.00		300.00		
	h 800 to 900		1	100.00	3.00		300.00	-	
	n 900 to 1000		1	100.00	3.00		300.00		
	n 1000 to 1100		1	100.00	1.30				
Ch	n 1100 to 1200		1	100.00			130.00		
	1200 to 1300		1		2.37		237.00		
	1 1300 to 1400	_		100.00	3.00		300.00		de Stationers
	1 1400 to 1500	-	1	100.00	1.35		135.00		
			1	100.00	2.70		270.00		
	1 1500 to 1600		1	100.00	2.50		250.00		
	1 1600 to 1700		1	100.00	1.35		135.00		-
	1700 to 1800		1	100.00	1.35				-
	1800 to 1900		1	100.00			135.00		-
Ch	1900 to 2000		1	100.00			135.00		32.00
Ch	2000 to 2100		1				135.00		
Ch	2100 to 2200	_		100.00			135.00		
Ch	2200 to 2300			100.00			135.00	1	
Ch	2300 to 2400			100.00			135.00		A. Carrier
Ch	2400 to 2500	_		100.00			135.00		lega a
	2500 to 2600	-		100.00			135.00		
			11	100.00	1.35		105 00		
	2000 to 2000		-	100.00	1.00		135.00		
	2000 to 2000			100.00	1.00		11119.50		-

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Assi. EXECUTIVE ENGINEER BRUHAT BANGALORE MAHANAGARA PALIKE BANGALORE

No.	Sl. No.	Unit	No.	Length	Breadth		Quantity	Rate	Amount
4.07	KSRRB 2200-5.12: Providing and	C		in m	in m	in m	1.1	in Rs.	in Rs.
14.07	laying Design Mix M25 with OPC	Cum							
1	@340kgs, with 20mm and down size								
1	graded granite metal coarse		1 2 1						
t -	aggregates @0.7Cum and fine						171		
1	aggregates @0.47 Cum, with								
	superplasticiser @3lts Conforming to								
1	IS: 9103-1999 Reaffirmed - 2008								
	including cost of materials, labour,			73 144		12			
T	HOM curing, form work, scaffolding								
1	and centering complete as per								
1 5	specifications.								
	i)upto 5m height								
. —	(P.No.227, I.No.28.7.12 in PW,P&IWTI	SR 20	18-19)						
-	RCC Band at 7.5m interval							3	
	Eastern Side								
_	Ch 0 to 2600		1	347	0.15	0.11	5.73		
-	along the Road		1	2600	0.30	0.30	234.00		
	Deduction at Junction		-1	16	0.15	0.11	-0.26		
	Western Side								
. —	Ch 0 to 2600 along the Road		1	347	0.15	0.11	5.73		
	along the Road	_	1	2600	0.30	0.30	234.00	-	
						Say	479.19	F040.00	0501505
						Say	479.50	5640.26	2704505.0
'.08	KSRRB M2100 - 13: Providing and	Cum							
1	laying Plain / Reinforced Cement					1	1		
1	Concrete mix 1:2:4 with OPC cement				. 1	1			
	@240kgs, with 40mm and down size				1	- 1	-	4	
	graded granite metal coarse	- 1					- 1		
	aggregates @ 0.84Cum and fine								
	aggregates @ 0.56Cum in Open					- 1			
	Foundation including cost of all								
	materials, labour, HOM, curing, form			- 1					
	works, scaffolding and centering				10			# 9	
p. = 1	complete as per specifications	-				- 1	2 20		
	complete as per Drawing and	- 1							
	Technical Specifications	- 1			151				
	MORTH Specification No. 1500, 1700	- 1							
	& 2100	- 1					- 1		
10112	(P. No.222 of INo 27.24 in PW,P&IWTD	SR 201	8 - 19)						-
	Eastern Side		0 10/						
	Ch 0 to 2600		1	2600	0.465	0.15	181.35	-	
_	For Cycle Track		1	. 1488	0.20	0.15	44.65		
	Deduction at Junction		-1	116	0.465	0.15	-8.07		
-	Western Side								
	Ch 0 to 2600		1	2600	0.465	0.15	181.35	5 1 NO	
-	For Cycle Track		1	2210	0.20	0.15	66.30		
-		-					465.59		
						Say	465.59	5409.18	2518439.00
1 00	Drouiding and lawis Commission								
4.09	Providing and laying Cement C	um						1	
4.09	Concrete using 20mm and down size	um							
4.09	Concrete using 20mm and down size granite coarse aggregates and fine	um							
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed	Sum						14. 1500 0	
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm	eum						essa e	
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted	eum							
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with	cum					ī		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete	eum •					ı		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and	eum	*		2		ı		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges)	eum	*		2				
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for	·	* * K	3 6			1		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30	•					1		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30 CP.No.19, I.No.4.49.3 in PW.P&IWTD SR	•	19)						
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30	•	19)				1		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30 CP.No.19, I.No.4.49.3 in PW.P&IWTD SR	•	19)	2600	0.30	0.125	97.50		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30 CP.No.19, I.No.4.49.3 in PW.P&IWTD SR Eastern Side Ch 0 to 2600	•	1			0.105	101		
4.09	Concrete using 20mm and down size granite coarse aggregates and fine aggregates of Ready Mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M30 CP.No.19, I.No.4.49.3 in PW.P&IWTD SR Eastern Side	•		2600 115.64	0.30 0.30	0.105	97.50 -4.34 o.3 & 50	wacist a	ತರಿಸಲಾಗಿದೆ '

SI. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
-							190.66		
		-		-		Say	191.00	5933.88	1133371.0
4.10	Steel Reinforcement for RCC Work including straightening, cutting								
1	bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per						* . F		
] []	design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500	,					•	* a	
	(P.No.229, I.No.28.8.2 in PW,P&IWTD	SR 201	8 - 19)						
'	Consider 60kg/Cum for RCC M 30 Consider 60kg/Cum for RCC Band						11.46		400
	(along the Road) For Street Light Chamber Consider						28.08		
<u></u>	81kg per Cum	-					3.05		8 A
<u> </u>	For Street Light Poles 80kg per Cum			1		,	24.56	i i	
4.11	KSRB 2.3 : Filling available	0					67.15	72326.98	4856665.00
 	excavated earth (excluding rock) Embackment with available earth in road upto plinth in layers not exceeding 20cm in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications. Specification No. KBS 2.9	-			. 1				
	(P.No.7, I.No.2.10 of PW, P&IWTD SR 2	2018-19)		1					
-							598.979	213.06	127618.47
1.12	Providing and fixing Precast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. Size 450 x 150 x 500 mm	Nos.	9						
	(P.No.27, I.No.5.29.2 in PW,P&IWTD S	R 2018 -	- 19)						
	For Footpath								
	For Cycle Track	-	1	8219			11299		
			1	0219			8219 19518	467.40	0100004.00
1.13	Supply, Fabrication, Painting and I Fixing of Mild steel items such as Horizontal and Vertical gratings, Flower baskets, Cycle stands, Tree guards, Edge angles, Bollards, etc and any other items as specified in drawings or as approved by Engineer Incharge.	Nos.					19918	467.46	9123884.00
-	BBMP Approved Rate At 0.40m Interval, Big Bollards for		182				100 11		
	10m		33,000				182.00		
	Access to Property		130				130.00		

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Asst. EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE

BANGALORE

Sl. No.	Sl. No.	Unit	No.		Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
	Access to Property			224				224.00	J. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	in Ks.
	Near Junction			126		T				
	Infront of Bus Shelters			114		 		126.00 114.00		
4.14	Transp. 14		16 16				-	776.00		0101000.00
4.14	KSRRB M100-4.1: Cost of Haulage excluding loading and unloading MORTH Chapter - 100/1 (Lead upto 19Km) for Earth(Excavated Soil)							776:00	4000.00	3104000.00
	(P. No.136 I.No. 17.4 of PW, P&IWTD	S.R 201	8-19)							
4.15	1(19*1.28*2) = 48.64							5096.50	48.64	247893.76
	KSRRB M800 - 20: Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm: Providing, fixing and erecting 50mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC Series) 100 mm x 50mm, 1.2m high above ground, 2m centre to centre, complete as per approved drawings as per specifications. MORTH Specification No. 808.									241033.10
	Pno 184, INo 24,24 of PW,P&IWTD SR 2	2018 - 1	9)				-			
	Ch: 1275m to Ch: 1525m			1.00	211.66			211.66		
-								211.66	1511.56	319936.79
			-	-						
					Markey and the second		11	Potal Amount		1000=

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Asst. EXECUTIVE ENGINEER

BRUHAT BANGALORE MAHANAGARA PALIKE
BANGALORE

SI.	Sl. No.	Unit	No.	1,	7	1=			
No		Onit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
5.0	- Caracaran				1	1		in Rs.	in Rs.
3.0	C-111 C	Semiler Control						-	
\bigcirc	Solid Cement Concrete crash barrier / divider made out of M35								40 1 6 4
	with top and bottom width 100mm				-				
\bigcirc	and 350mm respectively 1000mm			1		. x		PAR V	1
1	height and 2000mm in Length (as								
O_{1}	shown in the drawing), Finished with							1	
1	CM 1:3 plastering and finishing								
O_1	cutting, including form work TMT								
1	steel as required curing , including			0 9	8				
$O_{\rm T}$	cost all material labour hire charges of								
	machinery, loading, unloading, lead			2				1	
-21	and lift, transportation etc., complete.								
71	To be laid between Travel lane, cycle track/ landscape etc., with all lead and								
-	lift, loading, unloading, complete and								
\mathfrak{I}_{1}	as per the directions of Engineer - in -								
	Charge.(Form Finish concrete and no								
7	painting to be done), (Excluding GST).						. 1		
- 1	1 de de delic), (Excluding GS1).				1			4.	
1							100		
/	BBMP Approved Rate								
715 00	Trans		2400.0	96			2400.00	6400.00	1500000000
5.02	KSRB M300 - 7.1: Planting n	n					2400.00	6400.00	15360000.00
7	permanent hedges including digging of trenches,60cm wide and 45cm deep,								
)	refilling the excavated earth mixed					- 1			
	with farmyard manure, supplied at	4						9 1 = 1	
1	the rate of 4.65Cum per 100metres			1	1			1	
4	and supplying and planting hedge	- 1					4		
)	plants at 30cm apart complete as per				1	1	-		
	specifications.				1				
1-	A) Planting permanent hedges								
	including digging of trenches		- 1	- 1				2	
)	MORTH Specification No. 307.	- 1		- 1					
/	Service Control of the Control of th								1
_	P. No. 149, I No. 19.84 of PW,P&IWTD SI	2018	-19)						
)			1.0	2450.00			2450.00	313.76	768712.00
70	Construction (C.)					7	otal Amount	010.70	16128712.00
6.01	Construction of Culverts KSRRB 300 - 50: Scarifying So								10120112.00
0.01		m							
1	bituminous course 50mm to 75mm thick along with premix carpet /								17/
'	surface dressing by mechanical means				1.				
	attached with scarifier without				- 1		1	.	1
	disturbing the base and stacking the						1		2.7
	debris including cost of all labour		- 1	1		- 1	1	1	4
1	charges, HOM complete as per		1	- 1					
	specifications.					1	1		
	MORTH / Chapter 3			1	- 1				
	(including loading, unloading and							- 1	
-	lead upto 20km)							1	1
	(39*1.06+20*1.3*2)+57 = 150.34					_			
	(P.No.146, I.No.19.56 of PW,P&IWTD SR 2	2018 -	19)						
	Eastern Side	T	1	13.00	2.00				1
			1	13.00 22.50	3.00		39.00		
			1	17.50	3.00		67.50		
_			1	29.44	3.00		52.50		
			1	25.70	3.00		88.32 77.10		-
	The second secon		1	13.00	3.00		39.00		
			1	14.00	3.00		42.00		
- ` -		-					405.42		
		-				Say	405.50	150.34	60963.00
					2000	- 111			



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Cost

	SI. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
	6.02	KSRRB M300 - 14: Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301							in Rs.	in Rs.
/		(P.No.143, I.No.19.14 of PW.P&IWTD S	S.R 201	8-19)		-				
١.		Eastern Side		1	13.00	3.00	2.80	100.00		
1				1	22.50		2.80	109.20 189.00		
١.	-			1	17.50		2.80	147.00		
) -				1	29.44	3.00	2.80	247.30		
-				1	25.70		2.80	215.88		-
				1	13.00	3.00	2.80	109.20	-	
-				1	14.00	3.00	2.80	117.60		
								1135.18		
1	-						Say	1135.50	43.46	49349.
-	.03	KSRRB M2200-5.1: Providing and (13		2100.00	43.46	49349.
		laying cement concrete of mix 1:2:4 with OPC @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.63Cum and fine aggregates @ 0.42Cum including cost of materials, labour, HOM, curing, form works, scaffolding and centering complete as per MORTH Section: 2200 & IS: 456 a)upto 5m height	2							
1-		(P. No.226 of INo 28.7.1 in PW.P&IWTD :	SR 201	8-19)					1	-
-		Eastern Side		1	13.00	3.00	0.10	3.90		
				1	22.50	3.00	0.10	6.75		
-				1	17.50	3.00	0.10	5.25		
	-	1		1	29.44	3.00	0.10	8.83		
uiig S	-			1	25.70	3.00	0.10	7.71		
-	-			1	13.00	3.00	0.10	3.90		
-	-			1	·14.00	3.00	0.10			
	-			,		0.00	0.10	4.20		Marine Services
							Say	40.54		1
6.0	e a a s Ii iii E a s s	KSRRB 2200-5.12: Providing and Cuaying Design Mix M25 with OPC 2340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47 Cum, with uperplasticiser @3lts Conforming to S: 9103-1999 Reaffirmed - 2008 recluding cost of materials, labour, IOM curing, form work, scaffolding and centering complete as per pecifications.						72.00	5746.26	235597.00
	Œ	No.227, I.No.28.7.12 in PW,P&IWTD SI	2 2010	10)						de La Const
	В	ottom Slab, Side Walls	2018	19)	19.00	7.10	0.55			
		op Cover Slab		1	13.00	7.40	0.20	19.24		
			-	1	13.00	3.00	0.20	7.80		
				1	22.50	7.40	0.20	33.30		
-				1	17.50	3.00	0.20	13.50		
				1	17.50	7.40	0.20	25,90		
				1	29.44	7.40	0.20	10.50		
_				1	29.44		0.20	43.57 5, ಕಾಯ್ದ್ರಾಕ್ ಡಿಯ	ತಿ ವಿತರಿಸೇ	man"
		The William Strangers of the Control		1	25.70		0.20	38 04	m	

Cash

Steet Reinforcement for RCU Work Steet Reinforcement for RCU Work Including straightening, cutting, bending, hooking placing in position, lapping and / or welding wherever required, tying with hinding were and anchoring to the adjoining members wherever necessary complete as per design (Japs, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 of PW.P&IWTD S.R.2018.19) Colvert for existing Storm Water Drain G.O. Diversion of water course by Comproviding Coffer dams or bunds or providing Coffer dams or bunds or providing Coffer dams or bunds or providing Coffer dams or bunds or pumping water during excavation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including model to the constructing granite / tray / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KESR D. 1.1: Providing and Cum constructing granite / tray / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KESR B. 3.1.2: Complete the course including cost of materials, labour, curing complete as per specifications. KESR B. 3.1.1: Excavation for Cum roadwork in all types of soil by unacchanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of line, grades and cross sections, and transportation with a lead of likm and complete as per specifications. MORTH Specifications.	Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
1 13.00 7.40 0.20 19.24 1 14.00 7.40 0.20 7.50 1 14.00 7.40 0.20 26.10 1 14.00 7.40 0.20 26.10 1 14.00 3.00 0.20 26.10 1 14.00 3.00 0.20 26.10 5 85RRB Ma200-0. Providing TMT Tonne Steel Reinforcement for RCC Work Including straightening cutting Including straightening cutting Including straightening cutting Including straightening Including state Including straightening Including state	,		-		1 25.70	3.00	0.20	15.42	7 7	
1 14.00 7.40 0.20 20.72					20100					
1 14 00 3.00 0.20 8.40 281,09 281,09 281,09 281,09 281,09 281,09 281,09 281,00 5640.26 J Steel Reinforcement for RIC Work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (Japa, hooks and wastage shall not be measured and paid) cost of materials, labour. HIOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Pe 500 28.02.25 Line.26.8.2 of PW.P&IWTD SR 2018-19 1006ss per Cum 28.15 72326.98 20 20 20 20 20 20 20 2)		-		10.00			7.80		The gradue of the
SERIER M2200-6. Providing TMT Tonne Steel Reinforcement for RCC Work building attraightening, cutting, benefition, lapping and or wellage in position, lapping and or wellage in position, lapping and or wellage in position, lapping and or wellage in position and anchoring to the adjoining members wherever necessary complete as per design (Japp, Looks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 of FW.P&IWTD SR 2018-19) 1008kg per Cum Culvert for existing Storm Water Drain Collvert for existing Storm Water Drain Collvert for existing Storm Water Drain Collvert for existing Storm by Cum providing Coffer dams or bunds or lands at may be necessary for piers halling out or pumping were excavation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including 3m depth. (P.No.259, I.No.37.41.2 of PW.P&IWTD SR 2018-19) For Diversion of Water (SSRE M300 - 1.1: Providing and Cum constructing granite / trap / baself vable stone masonry in foundation with und mortar (uncursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. Riss 51.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) Por Diversion of Water 2 14.00 0.60 0.90 15.12 P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) Por Diversion of Water 2 14.00 0.60 0.90 15.12 P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) P.No. 143, I.No.19, 14 of PW.P&IWTD SR 2018-19)	-		-			11.20				
Sav 281,50 5640,26 Sav 281,50 5640,26 Secondary Se)		-		1 14.00	3.00	0.20			
Seel Reinforcement for RCC Wart including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (tape, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No. 1600 & 2200 TMT Bars Fe 500 (P.No. 229, I.No. 25.8, 2 of PW.P&IWTD S.R. 2018-19) 100kgs per Qum Cuttort for existing Storm Water Drain Say 28.16 72326.98 20 Cuttort for existing Storm Water Drain Say 28.16 72326.98 20 Cuttort for existing Storm Water Drain Diversion of water course by Cum providing of water course by Cum providing of water course by Cum providing of water during excavation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including 3m depth. CR.No. 259, I.No. 37.4 i.2 of PW.P&IWTD SR 2018-19) For Diversion of Water trap / basalt rubble stone masonry in Soundation with mud mortar (uncursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KSRR M300 - 14: Excavation for Cum constructing grantie / trap / basalt rubble stone masonry in Soundation with mud mortar (uncursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KSRR M300 - 14: Excavation for Cum constructing cost of materials, labour, curing complete as per specifications. MORTH Specification for Cum construction and side slopes in accordance with requirements of lines, grades and content in all types of soil by unchanatical means including cutting and londing to tippers. Crimming bottom and side slopes in accordance with requirements of lines, grades and complete as per specifications. MORTH Specification for Cum construction an					-					
Steel Reinforcement for RCC Work including straightening. cutting, bending, broking, placing in position, lapping and / or welding wherever required, tying with binding wire and anathoring to the adjoining members wherever necessary complete as per design (laps, hocks and wastage shall not be measured and paid) cost of materials, labour, IOM complete as per specification. MORTH Specification No. 1600 & 2200 TMT Bars Fe 500 (P.No. 229, I.No. 28, 8.2 of PW.PE.WTD S.R 2018-19) 1.00ks per Cum Culvert for existing Storm Water Drain Sav 28.15 72325 98 22 Culvert for existing Storm Water Drain Diversion of water course by Cum provided to the control of water course by Cum provided Collect and sort bands or slands and abutment's forecessary for piers abutment's forecessary for piers and abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary forecessary forecessary for piers forecessary for piers forecessary forecessary forecessary forecessary forecessary forecessary for) [-	-	-		Say	281.50	5640.26	1587733.0
Steel Reinforcement for RCC Work including straightening. cutting, bending, broking, placing in position, lapping and / or welding wherever required, tying with binding wire and anathoring to the adjoining members wherever necessary complete as per design (laps, hocks and wastage shall not be measured and paid) cost of materials, labour, IOM complete as per specification. MORTH Specification No. 1600 & 2200 TMT Bars Fe 500 (P.No. 229, I.No. 28, 8.2 of PW.PE.WTD S.R 2018-19) 1.00ks per Cum Culvert for existing Storm Water Drain Sav 28.15 72325 98 22 Culvert for existing Storm Water Drain Diversion of water course by Cum provided to the control of water course by Cum provided Collect and sort bands or slands and abutment's forecessary for piers abutment's forecessary for piers and abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary for piers abutment's forecessary forecessary forecessary for piers forecessary for piers forecessary forecessary forecessary forecessary forecessary forecessary for	6.05	KSRRB M2200-6: Providing TMT	Tonne						-	
bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding ware and anchoring to the adjoining members wherever necessary complete as per design (Japs, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018-19) 100kgs per Cum Culvert for existing Storm Water Drain 6.06 Diversion of water course by Cum providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including 3m depth. (P.No.269, I.No.37, 41.2 of PW, P&IWTD SR 2018-19) For Diversion of Water A.07 KSRB 5 - 1.1: Providing and Cum constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25, I.No.5, 1 of PW, P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 (P.No.25, I.No.5, 1 of PW, P&IWTD SR 2018-19) For Diversion and state specifications. KBSRB M300 - 14: Excavation for Cum roadwork in all types of soil by innechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications with a lead of 1km and complete as per specifications with a lead of 1km and complete as per specifications with a lead of 1km and complete as per specifications. MORTH PKP Specification No. 301 (P.No.143, I.No.19 14 of PW, P&IWTD SR 2018-19)		Steel Reinforcement for RCC Work								
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required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28, S. 20 FW.P&IWTD S.R 2018-19) 100kgs per Cum Culvert for existing Storm Water Drain [5,06] Diversion of water curse by Cum providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including 3m depth. (P.No.209, I.No.3741, 20 FW.P&IWTD SR 2018-19) For Diversion of Water 1,14.00 3.60 1.60 75.60 4.07 KSRB 5 1.1: Providing and Cum constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including complete as per specifications. KBS 8.1.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2,14.00 0.60 0.90 15.12 (P.No.25, I.No.5.1 of providing cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of likm and complete as a per specifications. MORTH Specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD SR 2018-19) 1,1740 3.00 0.50 0.50 0.50 0.50 0.50 0.50 0.5		bending, hooking, placing in position,			1					
anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.225, I.No.28.8.2 of PW.P&IWTD S.R 2018-19) 100kgs per Cum Culvert for existing Storm Water Drain Good Diversion of water course by Coum providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, balling out or pumping water during executation and until completion etc. including cost of materials, labour, HOM complete as per specifications. Beyond 1.50m depth upto & including 3m depth. (P.No.29, I.No.37.4.1.2 of PW.P&IWTD SR 2018-19) KSRB o 1.1: Providing and Cum constructing grantle / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) KSRB and all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of likm and complete a per specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD SR 2018-19) 1 17.40 3.00 0.50 0.50 0.50 0.50 0.50 0.50 0.5)	lapping and / or welding wherever				1		1		
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(P.No.269, I.No.37.41.2 of PW.P&IWTD SR 2018-19) For Diversion of Water 1 14.00 3.60 1.50 75.60 Say 76.00 417.64 3 Cum Constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25. I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 -08 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)	T						1		4.1	As Section
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For Diversion of Water 1 14.00 3.60 1.50 75.60 Say 76.00 417.64 3.07 KSRB 5 1.1: Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25. I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 (P.No.25. I.No.5.1 of pw.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		(P.No.269, I.No.37.41.2 of PW,P&IWTD	SR 201	8-19)						7
KSRB 5 1.1: Providing and Cum constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25 I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 NSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		For Diversion of Water		1	14.00	3.60	1.50	75.60		
KSRB 5 - 1.1: Providing and Cum constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 P.No.25. I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		- No.				0.00			417.64	31741.00
constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar (uncoursed), bond stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 P.No.25. I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499,48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)							- 24,7	70.00	417.04	31741.00
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stones at 2m, apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25. LNo.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, LNo.19.14 of PW.P&IWTD S.R 2018-19)				1						
including cost of materials, labour, curing complete as per specifications. KBS 5.1.12 (P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		stones at 2m, apart in each course		1		. 1			- 1-	5 6 74
CP.No.25. I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12		including cost of materials, labour,		1	1				- 1	1 7
(P.No.25, I.No.5.1 of PW.P&IWTD SR 2018-19) For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and Cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		curing complete as per specifications.	- 1							
For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Imechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		KBS 5.1.12		1	the latest the second				- 1	7
For Diversion of Water 2 14.00 0.60 0.90 15.12 Say 15.50 2499.48 3 KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Imechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)	1									1 2 1 1
KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)	-	(P.No.25, I.No.5.1 of PW.P&IWTD SR 20	18-19)							-
KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)		For Diversion of Water		2	14.00	0.60		15.12		Park and a
KSRRB M300 - 14: Excavation for Cum roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)	-						Say		2499,48	38742.00
roadwork in all types of soil by Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No. 143, I.No. 19.14 of PW.P&IWTD S.R 2018-19)	00 3	CODDD Mass								
Inechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)			um							
and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)	1	roadwork in all types of soil by								
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with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No.143, I.No.19.14 of PW.P&IWTD S.R 2018-19)					- 1					
cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No. 143, I.No. 19.14 of PW, P&IWTD S.R 2018-19)					T					
a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P No. 143, I.No. 19.14 of PW, P&IWTD S.R 2018-19) 1 17.40 3.60 0.50 3.60 0.50 3.60 0.50					1				_	
specifications. MORTH Specification No. 301 OP No. 143, I.No. 19.14 of PW,P&IWTD S.R 2018-19) 1 17.40 3.60 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0							-			
MORTH Specification No. 301 OP No. 143, I.No. 19.14 of PW,P&IWTD S.R 2018-19) 1 17.40 3.60 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0					_					
(P No.143, I.No.19.14 of PW,P&IWTD S.R 2018-19) 1 17.40 3.60 0.50 (1.50 の 1.50 の 1.5									4.	
1 17.40 3.60 0.50 0.50 33 33 37 37 37 37 37 37 37 37 37 37 37										
1 17.40 3.60 0.50 eaois0.32 eois0.32 e		P.No.143, I.No.19.14 of PW,P&IWTD S.I	R 2018-	19)						
《一····································				1	17.40	3.60	0.50	#20130.32 30	ಸಲಾಗದ	100000000000000000000000000000000000000
31.50 43.46 1					00	ಮಾಹಿತಿ ಹ	o Salamo	31.50	43.46	1369.00

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Sl. No.	Sl. No.	Unit	No.	Length	Breadth	1000	Quantity	Rate	Amount
6.09	WCDB 9.9. Description of Billing	-		in m	in m	in m		in Rs.	in Rs.
5.03	KSRB 2.8: Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications. Specification No. KBS 2.10.2							×	
200	(P.No.7, I.No.2.15 of PW, P&IWTD S.R	2018 -	19)						110
	J. J	2010	13)	1 17.40	3.60	0.30	19.70		
				21.10	3.00	Say		2574.74	40000
			5			Day	10.00	25/4./4	48920.
3.10	KSRRB M2100 - 13: Providing and laying Plain / Reinforced Cement Concrete mix 1:2:4 with OPC cement @240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including cost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications complete as per Drawing and Technical Specifications MORTH Specification No. 1500, 1700 & 2100								
	(P.No.222, I.No.27.24 of PW, P&IWTD 5	S.R 201	8 - 19)					-	
			1	17.40	3.60	0.15	9.40		
11	KCDDD MOOOD 5 10 Davidia	_				Say	9.50	5409.18	51387.0
	KSRRB M2200 - 5.18: Providing and claying Design mix M35 with OPC @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68Cum and fine aggregates @ 0.45Cum, with superplasticiser @3lts conforming to	oum						20	* ************************************
	IS: 9103 - 1999 Reaffirmed - 2008 including cost of materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications.		5						
	i) U pto 5m height								
- !	(P.No.228, I.No.28.7.18 of PW, P& IWTD	SR 201	(8 - 19)						
	Bottom Slab		1	17.40	3.60	0.20	12.53		*
	Side Walls		2	17.40	0.20	1.50	10.44		
	Top Slab	-	1	17.40	3.60	0.20	12.53	H.V.	
-							35.50		
- 1	A STATE OF THE STA					Cour	25 50	FOOF 50	

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SI. No.	Sl. No.	Unit	No.	Length	Breadth	100	Quantity	Rate	Amount
6.12	KSRRB M2200-6: Providing TMT	Tonne		in m	in m	in m	ļ	in Rs.	in Rs.
	Steel Reinforcement for RCC Work								17
	including straightening, cutting				1		1		1
	bending, hooking, placing in position.			1 3 1				1	
	lapping and / or welding wherever					22	1	1	
	required, tying with binding wire and		100						
	anchoring to the adjoining members				1				
	wherever necessary complete as per				1				E
	design (laps, hooks and wastage shall				1 1				
	not be measured and paid) cost of			1					
	materials, labour, HOM complete as								
	per specification.				1 1				
	MORTH Specification No.1600 & 2200	- 1							Live and
	TMT Bars Fe 500								5-4
	(P.No.229, I.No.28.8.2 of PW,P&IWTD	S.R 201	8 - 19)	L					
	Consider 140kg per Cum						4.97	70000 00	050.00
3.13	KSRB 2.4: Refilling available earth	Cum					4.91	72326.98	359425.0
	around pipeline, cables in layers not					. 1		1	
	exceeding 20cm in depth, compacting						*:	4 1	
	each deposited layer by ramming after				1		*	1	
	watering with lead upto 50m and lift					1	1		
	upto 1.5m including cost of all labour	- 1			1		1	1	
	complete as per specifications.		1	1	1				
	(P No 7 I No 9 11 of DW De HUMD OD o								
	(P.No.7, I.No.2.11 of PW, P&IWTD SR 2	2018 - 19))						
14	KCDDD Mass of the					813.00	813.00	128.26	104275.38
.14	KSRRB M100-4.1: Cost of Haulage	Cum							
	excluding loading and unloading					- 1		<i>i</i> .	
	MORTH Chapter - 100/1 (Lead upto	- 1	- 1	1	1	- 1		- 1	
	19Km) for Earth(Excavated Soil)				1				
_	(P. No.136 I.No.17.4 of PW, P&IWTD S.)	3 2018-1	9)						
	(19*1.28*2) = 48.64					-	1000 50		
00	Marie Control of the					T	322.50 otal Amount	48.64	15686.40
00	Carriageway Construction / Stren	gtheni	ng Works			1	otal Amount		4830489.78
	Construction of Carriageway in th	e Wid	ened Port	ion					
01	KSRRB M300 - 14: Excavation for C	um	1						
	roadwork in all types of soil by				- 1				- 0
	mechanical means including cutting			1					
1:	and loading to tippers, trimming			1				- 1	
1	bottom and side slopes, in accordance				. 1			1	
	with requirements of lines, grades and	1			1				
1	cross sections, and transportation with							1	
E	a lead of 1km and complete as per	-				1			
S	specifications.	1				1			
1	MORTH Specification No. 301		- 1						
(P.No.143, I.No.19.14 of PW,P&IWTD S.R	2018-1	9)						
	Ch 0 to 50		1	50.00	17.13	1.30	1113.22		
	Ch 50 to 100 Ch 100 to 150		1	50.00	32.03	1.30	2082.15		
	Ch 150 to 200		1	50.00	28.76	1.30	1869.30		HOUSE CONTRACTOR
	Ch 200 to 250		1	50.00	27.34	1.30	1777.00		
	Ch 250 to 300		1	50.00	24.89	1.30	1617.85		
	Ch 300 to 350	-	1	50.00	23.00	1.30	1495.23		
-10			1	50.00	22.85	1.30	1485.12		
10	ch 350 to 400		1	50.00	23.34	1.30	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		

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SI. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amoun
	Ch 400 to 450			1 50.00			1507.71	in as.	in Rs.
-	Ch 450 to 500			1 50.00					
-	Ch 500 to 550 Ch 550 to 600			1 50:00					_
	Ch 600 to 650		-	1 50.00	29.78				_
	Ch 650 to 700	_		1 50.00	28.63	1.30		-	
	Ch 700 to 750	_		1 50.00		1.30			
	Ch 750 to 800		-	1 50.00		1.30			
	Ch 800 to 850			1 50.00	20100	1.30	1686.82		
	Ch 850 to 900			1 50.00	20101	1.30	1752.82		
	Ch 900 to 950			1 50.00		1.30	1941.91		
-	Ch 950 to 1000			1 50.00 1 50.00	31.22	1.30	2029.24		
	Ch 1000 to 1050			1 50.00	15.32	1.30	1488.86		
	Ch 1050 to 1100			1 50.00	13.65	1.30	995.64		
	Ch 1100 to 1150			1 50.00	12.86	1.30	886.99 835.58		-
	Ch 1150 to 1200			1 50.00	10.26	1.30	666.80		_
-	Ch 1200 to 1250			1 50.00	13.12	1.30	852.57		
	Ch 1250 to 1300			1 50.00	14.41	1.30	936.42		-
_	Ch 1300 to 1350 Ch 1350 to 1400			1 50.00	14.10	1.30	916.47		
_	Ch 1400 to 1400			1 50.00	15.20	1.30	987.87		-
	Ch 1400 to 1450 Ch 1450 to 1500	-		50.00	14.91	1.30	969.28		-
				50.00	14.50	1.30	942.44		+
	Ch 1500 to 1550 Ch 1550 to 1600	-		50.00	13.21	1.30	858.36		-
	Ch 1600 to 1600 Ch 1600 to 1650				12.83	1.30	833.79		
7	Ch 1650 to 1700]	50.00	10.39	1.30	675.19		
			1	50.00	9.32	1.30	605.61		-
-	Ch 1700 to 1750	-	1	50.00	9.35	1.30	608.01		-
-	Ch 1750 to 1800		1	50.00	8.78	1.30	570.38	-	
	Ch 1800 to 1850		1	50.00	8.70	1.30	565.18		
-	Ch 1850 to 1900 Ch 1900 to 1950		1	-	7.55	1.30	490.78		
	Ch 1950 to 2000	-	1	50.00	5.97	1.30	388.25		
	Ch 2000 to 2050	-	1	50.00	3.71	1.30	241.18	-	-
	Ch 2050 to 2100		1	50.00	2.23	1.30	145.21		
	Ch 2100 to 2150		1	50.00	1.87	1.30	121.81		1 1 1 -
	Ch 2150 to 2200		1	50.00	1.44	1.30	93.67		
	Ch 2200 to 2250		1	50.00	1.43	1.30	93.02	Lanca and the same	
1	Ch 2250 to 2300		1	50.00	1.57	1.30	101.79		
,	Ch 2300 to 2350		1	50.00	1.77	1.30	114.86		
	Ch 2350 to 2400	-	1	50.00	2.78	1.30	180.90	10	
	Ch 2400 to 2450		1	50.00	3.25	1.30	210.96	-	
	Ch 2450 to 2500		1	50.00	4.10	1.30	266.37		1.11
	Ch 2500 to 2550	_	1	50.00	4.26	1.30	277.19		
1	Ch 2550 to 2600		1	50.00	4.67	1.30	303.45		
1	Busbay (Area)		2	50.00	5.53	1.30	359.26		
	4		2	165.00	1.05	1.30	450.45	1 1	
							51890.41		
1	KSRB 2.3 : Filling available	Cum				Say	51890.50	43.46	2255161
16	excavated earth (excluding rock)	- 4444							
I	Embackment with available earth in		- 1						
r	oad upto plinth in layers not	.		1			1 .		
e	xceeding 20cm in depth, compacting			1					
e	ach deposited layer by ramming after		1		1				
V	vatering with lead upto 50m and lift		- 1		1	1	· ·	- 1	
u	pto 1.5m including cost of all labour				- 1		1		
C	omplete as per specifications.	1		2.5					
s	pecification No. KBS 2.9	1					1		
1/7								1	
17	P.No.7, I.No.2.10 of PW, P&IWTD SR 20	018-19)							
12	th 1850 to 1900		1	50.00	1.29	0.60	38.70		
	h 1900 to 1950		1	50.00	3.26	0.60	97.71		
	h 1950 to 2000		1	50.00	6.04	0.60	181.11		
	h 2000 to 2050		1	50.00		0.60	200.58	1	
12	h 2050 to 2100		1	50.00		0.60	254.43	-	7
12	h 2100 to 2150		1	50.00		1.00	501.35		
	h 2150 to 2200		1	50.00		1.00	548.25		
	h 2200 to 2250		1	50.00		1.00	574.10	-	
	h 2250 to 2300		1	50.00		1.00	571.95	-	
[C]	n 2300 to 2350		1	50.00		0.60	220.10	-	

10.67 0.60 571.95 320.19 ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ."

Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount
	Ch 2350 to 2400			1 50.00		-	212.5	ın Rs.	in Rs.
	Ch 2400 to 2450			00.00	-	0.60	210.01		Lanca de la constante de la co
-	Ch 2450 to 2500			00.00		0.60	318.93		
	Ch 2500 to 2550			The state of the s			368.91 300.51		
-					10.02	0.60	4523.26		
7.03	VCDDD Maca as a					Say	4523.50	213.06	963777
	KSRRB M300-55: Construction of Sub Grade and Earthen Shoulders with approved materials Gravel / Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300 - 2 complete	,						223,30	
	as per specifications. including cost of earth, watering charges & compaction by vibratory roller to 97% of Modified Proctor Density MORTH Specification No. 305 CBR Value of Sub grade soil 10%		3	1		80	e		
	(P. No.147, I.No 19.62 of PW,P&IWTD	S.R 201	8 - 19)						
-	Western Side							1	., -
-	Ch 0 to 25		1	25.00	13.20	0.50	107.05		
	Ch 25 to 825		1	800.00	13.20	0.50	165.00		
	Ch 825 to 900		1	75.00	13.20	0.50	5280.00		
	Ch 900 to 1000		1	100.00	18.30	0.50	495.00		1
-	Ch 1000 to 1150		1	150.00	8.80	0.50	915.00	- i-	-
_	Ch 1150 to 1225		1	75.00	5.20	0.50	660.00	-	
-	Ch 1225 to 1925		1	700.00	10.80	0.50	195.00	• •	
	Ch 1925 to 1975		1	50.00	8.80	0.50	3780.00		
	Ch 1975 to 2200		1	225.00	6.80	0.50	220.00 765.00		
-	Ch 2200 to 2400 Ch 2400 to 2600		1	200.00	6.80	0.50	680.00		
	Busbay (Area)	-	1	200.00	12.00	0.50	1200.00		
	Deduct for cross ducts	-	2	165.0		0.50	165.00		
	a dob dates	_	-5	21.56	1.60	0.50	-86.25	to,	
			-8	15.55	1.60	0.50	-99.55		
		-	78-7-7-7-7-7				14334.20		
4	Construction of granular sub-base C					Say	14334.50	369.94	5302905.00
	Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite / trap / basalt material, mixing in a mechanical mix plant at OMC; Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and	um							
1	compacting with vibratory power roller to achieve the 98% proctor density, complete as per								
0 5 0 0 V	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825	018 - 19	1 1	25.00 800.00	13.20 13.20	0.20	66.00 2112.00		
	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900	018 - 19	1 1 1	800.00 75.00	13.20		66.00 2112.00 198.00		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000	018 - 19	1 1 1 1	800.00 75.00 100.00	13.20 13.20 18.30	0.20	2112.00		
	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000 Ch 1000 to 1150	018 - 19	1 1 1 1 1	800.00 75.00 100.00 150.00	13.20 13.20 18.30 8.80	0.20 0.20	2112.00 198.00		
	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000 Ch 1000 to 1150 Ch 1150 to 1225	018 - 19	1 1 1 1 1 1 1 1	800.00 75.00 100.00 150.00 75.00	13.20 13.20 18.30 8.80	0.20 0.20 0.20	2112.00 198.00 366.00		
	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000 Ch 1000 to 1150 Ch 1150 to 1225 Ch 1225 to 1925	018 - 19	1 1 1 1 1 1 1 1	800.00 75.00 100.00 150.00 75.00 700.00	13.20 13.20 18.30 8.80 5.20 10.80	0.20 0.20 0.20 0.20 0.20 0.20	2112.00 198.00 366.00 264.00		
	Compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000 Ch 1000 to 1150 Ch 1150 to 1225 Ch 1225 to 1925 Ch 1925 to 1975	018 - 19	1 1 1 1 1 1 1 1 1 1	800.00 75.00 100.00 150.00 75.00 700.00 50.00	13.20 13.20 18.30 8.80 5.20 10.80 8.80	0.20 0.20 0.20 0.20 0.20	2112.00 198.00 366.00 264.00 78.00		
	compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW,P&IWTD SR 2 Vestern Side Ch 0 to 25 Ch 25 to 825 Ch 825 to 900 Ch 900 to 1000 Ch 1000 to 1150 Ch 1150 to 1225 Ch 1225 to 1925	018 - 19	1 1 1 1 1 1 1 1	800.00 75.00 100.00 150.00 75.00 700.00	13.20 13.20 18.30 8.80 5.20 10.80 8.80 6.80	0.20 0.20 0.20 0.20 0.20 0.20	2112.00 198.00 366.00 264.00 78.00 1512.00		

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	il. Io.	Sl. No.	Unit	No.		Length in m	Breadt in m	h Depth in m	Quantity	Rate in Rs.	Amount in Rs.
/ -	-	Busbay (Area)			2	10	65.00	0.20	0.00		in Rs.
, 1		Deduct for cross ducts			-5		6 1.6				
)			-		-8	15.5	5 1.6		9 2.00		
					-	Charles.			5667.68		
7							-	Say	5668.00	1994.9	92 11307207.
17.	05	KSRRB M400 - 17: Providing, laying,	Cum	-				-			
1		spreading and compacting crushed	D-000000000								
		stone aggregates of granite / trap /			- 1		1	199			
71		basalt to Wet Mix Macadam					1			- 2	4.
1		specifications including pre mixing the			1					8	1
7		material with water at OMC in mechanical mix plant carriage of			- 1						1
1		mixed materials by tipper to site.									
7.1		laying in uniform layers with paver in						1 1			
		sub-base/base course on well prepared						1 1			
1		surface and compacting with vibratory						1 1			
	- 1	roller to achieve the desired density			- 1				2.00	40	1 -
		complete as per specifications.							1		
T		MORTH Specification No. 406							1		1
1		(P.No. 155 I.N. 00 10 ADW DO									
-		(P.No.155, I.No.20:18 of PW,P&IWTD S Western Side	R 2018-	19)	_						-
		Ch 0 to 25								* 1	
1		Ch 25 to 825			1	25.00	13.20	0.25	82.50		
		Ch 825 to 900	-		1	800.00	13.20		2640.00		
1		Ch 900 to 1000			1	75.00	13.20	0.25	247.50		
	- (Ch 1000 to 1150	_		1	100.00	18.30	0.25	457.50		
_	- (Ch 1150 to 1225			1	150.00 75.00	8.80	0.25	330.00		Constitution of the Consti
_		Ch 1225 to 1925			1	700.00	5.20	0.25	97.50		
_	-19	Ch 1925 to 1975			1	50.00	10.80 8.80	0.25	1890.00		
-	-13	Ch 1975 to 2200			1	225.00	6.80	0.25	110.00		
' -	10	Ch 2200 to 2400 Ch 2400 to 2600			1	200.00	6.80	0.25	382.50 340.00		
L	Ē	Busbay (Area)			1	200.00	12.00	0.25	600.00		
_	I	Deduct for cross ducts			2	165.		0.25	0.00		
-	_	1			5	21.56 15.55	1.60	0.25	-43.13		
_	-				1	10.00	1.60	0.25	-49.77	-	
17.06	T	CODDD 500						Say	7084.60	2222 22	
1.00	1	SRRB 500-4: Providing and applying So	qm					Day	7085.00	2001.28	14179069.00
	P	rimer coat for surfaces of medium				- 1	1				
	b	orosity like cement stabilized soil ase @0.90kg/Sqm over prepared	- 1		1	1					
r	SI	urface with S.S bitumen emulsion	- 1						46-		
	u	sing tanker fitted with spray set			1				1		
	(e	excluding cleaning of road surface)								10.0	
	in	cluding cost of all material, labour,	1				100				
	H	OM complete as per specifications.	,						1		
	CI	lause 501 of MORTH V revision						I.			Days
-											
76	a.	No.21.5, Issue Rate as on 01 - 01 - 19)								-	
	W	estern Side									and the second
_	C	n 0 to 25 n 25 to 825		1		25.00	13.20		330.00	-	
1	CH	1 25 to 825 1 825 to 900	_	1		800.00	13.20		10560.00		
	Ch	1 900 to 1000		1		75.00	13.20		990.00		
	Ch	1 1000 to 1150		1		100.00	18.30		1830.00		
	Ch	1150 to 1225		1	_	75.00	5.20		1320.00		
	Ch	1225 to 1925		1		700.00	10.80		390.00	-	
	Ch	1925 to 1975		1	-	50.00	8.80		7560.00		
		1975 to 2200		1		225.00	6.80		440.00 1530.00	-1-	
1		2200 to 2400		1		200.00	6.80		1360.00		
4	P	2400 to 2600 sbay (Area)		1	- 1	200.00	12.00		2400.00		-
	De	duct for cross ducts		2		165.00			330.00	1	
	1-	auct for cross ducts		-5		21.56	1.60	and the same			
-									-172.51	1	
-				-8		15.55	1.60		-172.51 -199.09 28668.40		4204

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51. No.	SI. No.	Unit	No.	Length	Breadt	h Depth	Quantity	Rate	[A
.07	Wonne see			in m	in m	in m	- Cumitity	in Rs.	Amoun
.07	KSRRB 500-7: Providing and applying	Sqm						In As.	in Rs.
	tack coat using 80 / 100 grade bitumen		1		1		1	1 18 3	1.
Y	(VG 10) on the prepared black topped					1	1 .		
	surfaces at 2.5kg per 10Sqm, heating					1	1		1
	bitumen in boiler fitted with spray set			1				1	1
	(excluding cleaning of road surface)							1	1
	including cost of all materials, labour,				1				
	HOM complete as per specifications		1		1	1			
	Clause 503 of MORTH V revision		1	1	1			la	
			1		1			1	1
-	(I No 01 7 1 7								
	(I.No.21.7, Issue Rate as on 01.01.2019) Qty Same as 7.06					l l		2	
08	KSRRB M500-17: Providing and	-				-	28668.40	12.72	36466
	laying dense graded bituminous	Jum		1	1				00400
	macadam using crushed aggregates			1		1 - 1			
	of specified grading, premixed with	- 1				1 1			
	VG30 grade bituminous binder and,	- 1			1	1 1			
	transporting the hot mix to work site,	- 1			1	1 1		1.3	
	laying to the required grade, level and				1			. 1	
		- 1				1 1		1 5 5 9	
	wheeled, vibratory and tandem rollers				1	1 1		2.2	
	to achieve the deciral tandem rollers	- 1			1	1 1		1	
	to achieve the desired compaction as	- 1			1	1 1		2	
	per MORTH table 500 - 10 complete in					1 1			
	complete as per							. :	
	specifications.					1	1	7.	
	MORTH Specificatin No. 507.						1		
	Using 120 TPH capacity Asphalt batch		10				1		
	mix plant with sensor paver Gr -II (50				1				
	mm to 75 mm) with 4.5 % VG-30		1						
	Bitumen	-			777				
	(I No 21 17 9 1 P								
	(I.No.21.17.2, Issue Rate as on 01.01.2019 Western Side						·	-	
	Ch 0 to 25	-					La constant		
	Ch 25 to 825	-	1	25.00	13.20	0.075	24.75		
-	Ch 825 to 900	_	1	800.00	13.20	0.075	792.00	•	
-1	Ch 900 to 1000		1	75.00 100.00	13.20	0.075	74.25		Ledun
- 1	Ch 1000 to 1150		1	150.00	18.30	0.075	137.25		
-10	Ch 1150 to 1225		1	75.00	5.20	0.075	99.00	and the same	
	Ch 1225 to 1925		1	700.00	10.80	0.075	29.25		
	Ch 1925 to 1975		1	50.00	8.80	0.075	567.00		
-	Ch 1975 to 2200		1	225.00	6.80	0.075	33.00		
	Ch 2200 to 2400		1	200.00	6.80	0.075	114.75	-	
-	Ch 2400 to 2600		1	200.00	12.00	0.075	102.00		
	Busbay (Area)		2	165.0		0.075	180.00		
I	Deduct for cross ducts		-5	21.56		0.075	24.75		
_			-8	15.55	1.60	0.075	-12.94		
-				10.00	1.60	0.075	-14.93		
					-	2	2150.13		
		-				Say	2150.50	7049 00 1	

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**	Sl. No.	Unit	No.	Length	Breadth		Quantity	A D D C D C C C C C C C C C C C C C C C	Amount
υ.	SI. No.			in m	in m	in m		in Rs.	in Rs.
19	Providing and laying bituminous	Cum		harris and the					
	concrete 40mm thick with hot mix						1		
-	plant, using crushed aggregates of						1		
	specified grading, premixed with		-						
	bituminous binder and filler,					1	1		
	transporting the hot mix to work site,					1			
	transporting the not mix to work site,					1	1		
-	laying with a paver finisher to the				1				
	required grade, level and alignment,		1						¥3
	rolling with smooth wheeled, vibratory			4		1			
	and tandem rollers to achieve the				1 2				
	desired compaction in all respects								
	complete as per specifications.								
	Clause 507 of MORTH V revision as	1		1	1				
1	per IRC SP-53-2015.			1					
	Using 120 TPH capacity Asphalt batch								
J	mix plant with sensor paver grading II							1	
	(30-45mm) with 5.4% of modified	1	1						
	bituminous binder consisting of 4.97%				1				
	of VG-30 bitumen (60/70 grade) and	1					1 - 2		
11	0.43% of plastomeric thermoplastics	3							
191	(waste plastic)		- 1					1	
-	(I.No.21.78.8, Issue Rate as on 01.01.2	019)							
	Western Side					0.0	4 13.20		
. /	Ch 0 to 25			1 25.0					
	Ch 25 to 825			1 800.0					
	Ch 825 to 900			1 75.0					7 7 7
	Ch 900 to 1000			1 100.0					
	Ch 1000 to 1150			1 150.0					
	Ch 1150 to 1225			1 75.0					
	Ch 1225 to 1925			1 700.0					
	Ch 1925 to 1975			1 50.0					
	Ch 1975 to 2200			1 225.0					-
	Ch 2200 to 2400			1 200.0					
F1	Ch 2400 to 2600			1 200.0		0.0			
24	Busbay (Area)				65.00				
	Deduct for cross ducts	-		-5 21.5					
				-8 15.5	5 1.6	0.0	1146.74		
	The state of the s	_			-	Se			9218347.

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SI. No.	SI. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
10	Green Pigmented Asphalt: Providing and laying green pigment with resign binder to concrete or asphalt surface' by mechanical method, it comprises of a specially formulated binder system with a colour coated glass aggregate manufactured using a proprietary technology, provides a tactile warning system with a high friction, non - fading, consistent colour suface, environment friendly, sub angular, non-porous gives average service life of 5 years, installed effectively within 5-8 hours resulting in minimal traffic disruption. The finished surface to be level, uniform and free from streaks and holes, transporting the material, with all Lead & lift, including cost of all materials, labour, HOM of machineries compete as per specifications.								
	BBMP Approved Rate								
	For Cycle Track (West)	-		38.75					
	Ch: 25m to Ch: 900m		1	875.00	2.20		1005.00		
	Ch: 900m to Ch: 2600m		1	1700.00	1.50		1925.00		
				1700.00	1.50	Say	2550.00		
							4475.00	1500.00	6712500.00
-							Total Amount		66586877.74



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Vo.	Sl. No.	Unit	No.	Length in m	Breadth in m	i	Quantity	Rate	Amount
).	Strengthening of existing Carriag	eway (Camber Cor	rection, la	ving of O	verlay)		in Rs.	in Rs.
.11	mining the bituminous pavemen	tiSam		1	Jugoro	(Criay)			
	surface upto a depth of 55mm using	g						1	
	milling machine, to make a uniform	1						1	1
	surface without disturbing the base							1	1
	cleaning the milled surface, including	,							1
	cost of all labour charges and hire							* =	1
	charges of machineries, etc. complete,								
	including stacking the milled material								
	on the sides of road.	1			1			0	
	(Pg.No.151, I.No. 19.102 of PW, P & IW	IMP on							
	Eastern Side	TDSR	2018 - 19)						
-	Over existing Pavement								
_	Ch 0 to 25		1	25.00	33.38	**	834.50	-	
-	Ch 25 to 325		1	300.00	13.25		3975.00		
	Ch 325 to 400 Ch 400 to 800		1	75.00	13.25		993.75		
			1	400.00	14.00		5600.00		
-	Ch 800 to 1000		1	200.00	14.00		2800.00		
	Ch 1000 to 1150		1	150.00	11.00		1650.00		
	Ch 1150 to 1225		1	75.00	18.65		1398.75		
	Ch 1225 to 1275		1	50.00	17.00		850.00		
	Ch 1275 to 1400		1	125.00	11.00		1375.00		., ~
	Ch 1400 to 1525		1	125.00	17.40			-	
	Ch 1525 to 1925		1	400.00	11.00		2175.00		
_	Ch 1925 to 2200		1	275.00	18.42		4400.00		
	Ch 2200 to 2400		1	200.00			5065.50		
	Ch 2200 to 2600		1		17.00		3400.00		
	Deduct for cross ducts		-5	200.00	11.00		2200.00		
	1000			21.56	1.60		-172.51		
	For Cross Roads		-8	15.55	1.60		-199.09		
	CIL Road	-		-					
	Marappa Garden Road		1	30.00	13.00		390.00		
		- 1	1	30.00	11.00	1.	330.00		
	Nandidurga Road		1	30.00	14.00		420.00		
- 1	Muniswamappa Road		1	30.00	5.20		156.00		
- 6	Sth Main Road		1	30.00	13.00				
-1	1st Main Road		1	30.00	11.00		390.00		
-				00.00	11.00		330.00 38361.90		
17	CODD TOO O D					Say	38362.00	74.00	2010100
F	KSRRB 500-9: Providing and applying S	qm				- 24,	00002.00	74.20	2846460.0
1	Tack Coat using 80/100 Grade			- 1	= 1		- 1		
15	Bitumen (VG10) on granular base	1 -			-1	- 1			
S	uch as WBM surfaces hot bitumen	- 1							
	ourraced not blumen				3.61				
p	rimed at 4kg per 10Sqm, heating						, 1		
b	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set						1		
b (e	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface)						1		
b (e	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface)						l		
b (e	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour.						1		
b (d in	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour, IOM Complete as per specifications.	•							
b (d in	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour.	٠							
b G ir H	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour, IOM Complete as per specifications.			6					
p b iii H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19								
b ir H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side								
b ir H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) acluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement								
b in H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25	•	1	25.00	33.38		994 50		
b ir H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325		1 1		33.38		834.50		
b ir H C	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400		1	300.00	13.25		3975.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800		1	300.00 75.00	13.25 13.25		3975.00 993.75		
p b c c c c c c c c c c c c c c c c c c	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000		1	300.00 75.00 400.00	13.25 13.25 14.00		3975.00 993.75 5600.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150		1 1 1	300.00 75.00 400.00 200.00	13.25 13.25 14.00 14.00		3975.00 993.75 5600.00 2800.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, ito M Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1000 to 1150 h 1150 to 1225		1 1 1	300.00 75.00 400.00 200.00 150.00	13.25 13.25 14.00 14.00 11.00		3975.00 993.75 5600.00 2800.00 1650.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) neluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 400 to 1000 h 1000 to 1150 h 1150 to 1225 h 1225 to 1275		1 1 1	300.00 75.00 400.00 200.00 150.00 75.00	13.25 13.25 14.00 14.00 11.00 18.65		3975.00 993.75 5600.00 2800.00 1650.00 1398.75		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) neluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1000 to 1150 h 1150 to 1225 h 125 to 1275 h 1275 to 1400		1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) neluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1000 to 1150 h 1150 to 1225 h 1275 to 1400 h 1400 to 1525		1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) neluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1000 to 1150 h 1150 to 1225 h 125 to 1275 h 1275 to 1400		1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 125.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) neluding cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 400 to 1000 h 1000 to 1150 h 1150 to 1225 h 1275 to 1400 h 1400 to 1525 h 1275 to 1400 h 1400 to 1525 h 1525 to 1925		1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 125.00 400.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idlause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1150 to 1225 h 1275 to 1400 h 1400 to 1525 h 1275 to 1400 h 1400 to 1525 h 1525 to 1925		1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 125.00 400.00 275.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00 5065.50		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1150 to 1225 h 1275 to 1400 h 1400 to 1525 h 1275 to 1400 h 1400 to 1525 h 1525 to 1925 h 1525 to 1925		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 125.00 400.00 275.00 200.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1225 to 1275 n 1275 to 1400 n 1400 to 1525 n 1525 to 1925 n 1925 to 2200 n 2200 to 2400 n 2200 to 2400 n 2200 to 2600		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 200.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00 5065.50		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Clause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 h 1150 to 1225 h 1275 to 1400 h 1400 to 1525 h 1275 to 1400 h 1400 to 1525 h 1525 to 1925 h 1525 to 1925		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 21.56	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00 5065.50 3400.00 2200.00		
	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1225 to 1275 n 1275 to 1400 n 1400 to 1525 n 1525 to 1925 n 1525 to 1925 n 1925 to 2200 n 2200 to 2400 n 2200 to 2600 duct for cross ducts		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 200.00	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00 5065.50 3400.00 2200.00 -172.51		
P b b c c c c c c c c c c c c c c c c c	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1225 to 1275 n 1275 to 1400 n 1400 to 1525 n 1525 to 1925 n 1925 to 2200 n 2200 to 2400 n 2200 to 2600 duct for cross ducts r Cross Roads		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 21.56	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00 1.60		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 1375.00 2175.00 4400.00 5065.50 3400.00 2200.00 -172.51 -199.09		
P b c c c c c c c c c c c c c c c c c c	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1275 to 1400 n 1400 to 1525 n 1275 to 1400 n 1400 to 1525 n 1255 to 1925 n 1220 to 2200 n 2200 to 2400 n 2200 to 2400 n 2200 to 2600 duct for cross ducts r Cross Roads L Road		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 200.00 21.56 15.55	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00 1.60 1.60		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 2175.00 2400.00 5065.50 3400.00 2200.00 -172.51 -199.09 0.00		
P b b c c c c c c c c c c c c c c c c c	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1225 to 1275 n 1275 to 1400 n 1400 to 1525 n 1525 to 1925 n 1925 to 2200 n 2200 to 2400 n 2200 to 2600 duct for cross ducts r Cross Roads		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 200.00 21.56 15.55	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00 1.60 1.60		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 2175.00 2400.00 5065.50 3400.00 2200.00 -172.51 -199.09 0.00 390.00		
P b b c c c c c c c c c c c c c c c c c	rimed at 4kg per 10Sqm, heating itumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, IOM Complete as per specifications. Idause 503 of MORTH V revision No.21.9, Issue Rate as on 01 - 01 - 19) astern Side ver existing Pavement h 0 to 25 h 25 to 325 h 325 to 400 h 400 to 800 h 800 to 1000 n 1000 to 1150 n 1150 to 1225 n 1275 to 1400 n 1400 to 1525 n 1275 to 1400 n 1400 to 1525 n 1255 to 1925 n 1220 to 2200 n 2200 to 2400 n 2200 to 2400 n 2200 to 2600 duct for cross ducts r Cross Roads L Road		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	300.00 75.00 400.00 200.00 150.00 75.00 50.00 125.00 400.00 275.00 200.00 200.00 21.56 15.55	13.25 13.25 14.00 14.00 11.00 18.65 17.00 11.00 17.40 11.00 18.42 17.00 11.00 1.60 1.60		3975.00 993.75 5600.00 2800.00 1650.00 1398.75 850.00 2175.00 2400.00 5065.50 3400.00 2200.00 -172.51 -199.09 0.00		



Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount
	6th Main Road			30.00			390.00		in Rs.
	1st Main Road		1	30.00			330.00		
	For Pedestrian Crossing		-				0.00		
		+	4				66.00		
		-	2				63.00		
			- 2	14.00	1.50		42.00		
6							38532.90 38532.90	01.00	010000
7.13	KSRRB M500-17: Providing and	Cum					00002.00	21.20	816897.5
	laying dense graded bituminous	3							9
	macadam using crushed aggregates	3							
	of specified grading, premixed with VG30 grade bituminous binder and	4							1
	transporting the hot mix to work site,							1	
	laying to the required grade, level and		1					4 7	
	alignment, rolling with smooth								
	wheeled, vibratory and tandem rollers							1	12
	to achieve the desired compaction as								
	per MORTH table 500 - 10 complete in						2	1	
	all respects complete as per								
	specifications. MORTH Specificatin No. 507.								
	Using 120 TPH capacity Asphalt batch					. 1		1	
	mix plant with sensor paver Gr -II (50						1		
	mm to 75 mm) with 4.5 % VG-30	N.					.		
	Bitumen							100	
						- 1	1	1 1.	
43	(I.No.21.17.2, Issue Rate as on 01.01.20	19)							
	For Camber Correction								
	21.5% of Existing Area		1	8247.83		0.10	824.78		
_	Pedestrian Crossing						024.70		
-			2	11.00	3.00	0.225	14.85		
			1	21.00	3.00	0.225	14.18		
		0.5	4	14.00	3.00	0.225	9.45		
		0.5	2	11.00 21.00	1.50	0.26	8.58		
		0.5	2	14.00	1.50	0.26	8.19		
				14.00	1,00	0.26	5.46 885.49		
14	KSPPR 500 7. Providing and			- 13		Say	886.00	7049.00	6245414.00
	KSRRB 500-7: Providing and applying tack coat using 80 / 100 grade bitumen	Sqm							
	(VG 10) on the prepared black topped					1	1		
	surfaces at 2.5kg per 10Sqm, heating							1	
	bitumen in boiler fitted with spray set		1				1	1	
	(excluding cleaning of road surface)		- 1			-		1	
	including cost of all materials, labour,		1					1	
	HOM complete as per specifications.			1				- 1	
	Clause 503 of MORTH V revision						1		5 - 4
							1 -		- 1
-	(I.No.21.7, Issue Rate as on 01.01.2019)	-							
	Eastern Side								
	Over existing Pavement					_			
	Ch 0 to 25		1	25.00	33.38		834.50		- Charles - Co
11	Ch 25 to 325		1	300.00	13.25		3975.00		
-	Ch 325 to 400		1	75.00	13,25		993.75		
	Ch 400 to 800 Ch 800 to 1000		1	400.00	14.00		5600.00		
	Ch 1000 to 1150		1	200.00	14.00		2800.00		
	Ch 1150 to 1225		1	75.00	18.65		1650.00		
_	Ch 1225 to 1275		1	50.00	17.00		1398.75 850.00		
	Ch 1275 to 1400		1	125.00	11.00		1375.00		
	Ch 1400 to 1525		1	125.00	17.40		2175.00		
	Ch 1525 to 1925 Ch 1925 to 2200		1	400.00	11.00		4400.00		
	Ch 1926 to 2200 Ch 2200 to 2400	_	1	275.00	18.42		5065.50	1.	
	Ch 2200 to 2600		1	200.00	17.00		3400.00		
	Deduct for cross ducts		-5	21.56	1.60		2200.00		
			-8	15.55	1.60		-172.51 -199.09		
	For Cross Roads			23.00	1.00		-199.09		
	CIL Road		1	30.00	13.00		390.00		
	Marappa Garden Road		1	30.00	100 200 0 April 1		330.00		
	V andidurga Road		1	30.00	14.00		420.00		-

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S1.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
	Muniswamappa Road		1	30.00	5.20		156.00		
	6th Main Road		1	30.00	13.00		390.00		
-	1st Main Road		1	30.00	11.00		330.00		
	For Pedestrian Crossing								
1			4	11.00	1.50		66.00		
			2	21.00	1.50		63.00		
. —			2	14.00	1.50		42.00		
		-					38532.90		
.15	Providing and laying bituminous concrete 40mm thick with hot mix	Cum				Say	38533.00	12.72	490140.0
	plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler,								
,	transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory		55	3					
	and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as								. ~*
,	per IRC SP-53-2015. Using 120 TPH capacity Asphalt batch	12						. 7.4	
	mix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97%					-			ja ja
	of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)								
-	(I.No.21.78.8, Issue Rate as on 01.01.201	0)							
	Eastern Side	9)							
	Over existing Pavement								
1000	Ch 0 to 25			05.00	00.00	0.01		1	
	Ch 25 to 325		1	25.00 300.00	33.38	0.04	33.38	-	
	Ch 325 to 400		1	75.00	13.25	0.04	159.00		The state of
	Ch 400 to 800		1	400.00	14.00	0.04	39.75 224.00		-
	Ch 800 to 1000		1	200.00	14.00	0.04	112.00		
1	Ch 1000 to 1150		1	150.00	11.00	0.04	66.00		
-	Ch 1150 to 1225		1	75.00	18.65	0.04	55.95		
	Ch 1225 to 1275		1	50.00	17.00	0.04	34.00		
	Ch 1275 to 1400		1	125.00	11.00	0.04	55.00		
	Ch 1400 to 1525		1	125.00	17.40	0.04	87.00	P. 1	
	Ch 1525 to 1925 Ch 1925 to 2200		1	400.00	11.00	0.04	176.00		
	Ch 1925 to 2200 Ch 2200 to 2400		1	275.00	18.42	0.04	202.62		in all
	Ch 2200 to 2400 Ch 2200 to 2600	-	1	200.00	17.00	0.04	136.00		
	Deduct for cross ducts		1	200.00	11.00	0.04	88.00		
-	Leader for cross ducts	-	-5	21.56	1.60	0.04	-6.90		The state of
	For Cross Roads		-8	15.55	1.60	0.04	-7.96		
	CIL Road	-		00.00	10.00	0.00			
	Marappa Garden Road	-	1	30.00	13.00	0.03	11.70		
	Mandidurga Road	-	1	30.00	11.00	0.03	9.90		
	Muniswamappa Road	_	1	30.00	14.00	0.03	12.60		
	6th Main Road		1	30.00	5.20 13.00	0.03	4.68		
	1st Main Road		1	30.00	11.00	0.03	11.70		-
	For Pedestrian Crossing			30.00	11.00	0.03	9.90	-	
	- Control of the cont		4	11.00	1.50	0.04	2.64		
			2	21.00	1.50	0.04	2.52		7
			2	14.00	1.50	0.04	1.68		1 1.11
1.							1521.16		
				Til.		Say	1522.00	8036.92 1	2232192.00

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Sl.	SI. No.	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
7.16	KSRRB 300 - 50: Scarifying bituminous course 50mm to 75mm	Sqm		in m	in m	in m		in Rs.	in Rs.
1 .	thick along with premix carpet /								
	surface dressing by mechanical means								
T	attached with scarifier without disturbing the base and stacking the								
	debris including cost of all labour							- 4	
T	charges, HOM complete as per						2.01	1 1 2 4	
1	specifications.								
1	MORTH / Chapter 3								
1	(including loading, unloading and lead upto 20km)				2			1	
T	(39*1.06+20*1.3*2)+57 = 150.34								
7	(P.No.146, I.No.19.56 of PW,P&IWTD S	R 2018	- 19)						
1778	Junction								
			2	11.00	3.00		66.00		
			· 1	21.00	3.00		63.00		1440
			1	14.00	3.00		42.00		
		MV-SI III					171.00 171.00	150.34	25708-0
-	Wann de la						171.00	150.54	2570840
T'.17	KSRB 14.6-6: Providing and laying heavy duty interlock concrete paver	Sqm					27	7	
3	block 75mm thick 300mm X 300mm								
	using cement and course sand for								
3	manufacture of blocks of approved					1		3 to 10	
	size, shape and colour with a						- 1		
	minimum compressive strength of								
	281kg per Sqm over 50mm thick sand bed (average thickness) and								
	compacting with plate vibrator having								
	3 tons compaction force thereby			100		10 - 4		7	
-	forcing part of sand underneath to			-,70					
	come up in between joints, final								
	compaction of paver surface joints into					- 1			
	its final level, including cost of materials, labour and HOM of								
	machineries complete as per					. 1			
	specifications.						1		
1 1	P.No.103, I.No. 14.7 of PW,P&IWTD SR	2019 1	0)						
	Qty Same as Item No-2.02	2010-1	.5)				171.00		
	TODAY.						171.00	1176.60	201199.00
	KSRRB 2200-5.12: Providing and C	um							
	aying Design Mix M25 with OPC 3340kgs, with 20mm and down size		Tele 100	Dend		-			事務 4
	graded granite metal coarse		v () 1		200	- 1			
100	aggregates @0.7Cum and fine								1 1 1
	aggregates @0.47 Cum, with					- 1	- 1		
	superplasticiser @3lts Conforming to								
	S: 9103-1999 Reaffirmed - 2008								
	ncluding cost of materials, labour, HOM curing, form work, scaffolding								
	and centering complete as per						1		
	pecifications.						1		
1	Oupto 5m height		1						
	D No 997 I No 99 7 10 - CDW DO HYDD	CD CC	0. 10)						
	P.No.227, I.No.28.7.12 of PW, P& IWTD or Pedestrain crossing	SR 201	8 - 19)		-				
	The state of the s		4	11.00	0.30	0.10	1.32		
			2	21.00	0.30	0.10	1.26		
		-	2	14.00	0.30	0.10	0.84	-	
		_					3.42	5640.26	19290.00
Committee of the Commit							0.74	0040.201	10200.00

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a.J.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
.19	Green Pigmented Asphalt: Providing	Sqm							
1	and laying green pigment with								
-	resign binder to concrete or asphalt			1000					
	surface by mechanical method, it								
	comprises of a specially formulated								
	binder system with a colour coated			-					
	glass aggregate manufactured using a								
	proprietary technology, provides a		1						
	tactile warning system with a high								
	friction, non - fading, consistent colour								
	suface, environment friendly, sub		1		-				
1	angular, non-porous gives average							s = , _ `Yri	
1	service life of 5 years, installed			-			_		
	effectively within 5-8 hours resulting								
6	effectively within 5-5 hours resulting			1					
	in minimal traffic disruption. The			-					
1	finished surface to be level, uniform								
	and free from streaks and holes,	1		3					
	transporting the material, with all								
	Lead & lift, including cost of all			1 3					
	materials, labour, HOM of		1		0.75		le feet		
4	machineries compete as per		1				4 1		
	specifications.								
	Market Rate								
	For Cycle Track (East)				2.00		1005		-
	Ch: 25m to Ch: 900m			875.00			1925		
	Ch: 900m to Ch: 2600m			1700.00	1.50		2550		
							4475		2719500.0
						Say			6712500.0
				-			Total Amount		29589800.5
3.00	Construction of Docking Stations								
71	KSRRB M300 - 14: Excavation for	Cum							
	roadwork in all types of soil by			1		L			
	mechanical means including cutting								
	mechanical means including cutting								
-	and loading to tippers, trimming								
	bottom and side slopes, in accordance								
		1	1				1		
- No	with requirements of lines, grades and						1		
- A	cross sections, and transportation with) = 		-		
eli.	cross sections, and transportation with a lead of 1km and complete as per				, ,				
	cross sections, and transportation with a lead of 1km and complete as per specifications.		5 .						
	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301		8 10)						
	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD		8 - 19)	9 24	40	0.56	122.98		
el el	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301		8 - 19)	9 24	.40	0.56	122.98		5344.5
102	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area	SR 201	8 - 19)	9 24	.40	0.56			5344.5
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base	SR 201	8 - 19)	9 24	.40	0.56			5344.5
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage	SR 201	8 - 19)	9 24	.40	0.56			5344.5
x.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite in the section of granular sub-base graded crushed stone aggregate of granite in the section of granular sub-base graded crushed stone aggregate of granite in the section of granular sub-base graded crushed stone aggregate of granite in the section of granular sub-base graded stone aggregate of granular sub-base graded stone granular sub-base gra	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a	SR 201	8 - 19)	9 24	.40	0.56			5344.5
.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC.	SR 201	8 - 19)	9 24	.40	0.56			5344.0
.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and	SR 201	8 - 19)	9 24	.40	0.56			5344.0
3.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5,02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW.P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per	SR 201	8 - 19)	9 24	.40	0.56			5344.5
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% procton density, complete as per Specifications.	SR 201	8 - 19)	9 24	.40	0.56			5344.0
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% procton density, complete as per Specifications. Clause 401 of MORTH V Revision	SR 201		9 24	.40	0.56			5344.5
5.02	cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301 (P. No.143, I.No.19.14 of PW,P&IWTD Area Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite trap / basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% procton density, complete as per Specifications.	SR 201	3 - 19)		4.40	0.56	122.98	43.46	

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SI. No.	Sl. No.	Unit	No.		Length	Breadth		Quantity	Rate	Amount
3.03	KSRRB M400 - 17: Providing, laying,	Cum	-	_	in m	in m	in m		in Rs.	in Rs.
	spreading and compacting crushed	Cum								
	stone aggregates of granite / trap /									
1	basalt to Wet Mix Macadam									
	specifications including pre mixing the									
	material with water at OMC in				ľ					
	mechanical mix plant carriage of								100	
	mixed materials by tipper to site,					1				
	laying in uniform layers with paver in					1 1				
	sub-base/base course on well prepared									
	surface and compacting with with									1
	surface and compacting with vibratory							100		The state of
	roller to achieve the desired density			3				-42		
	complete as per specifications.							2.00	* 7	
	MORTH Specification No. 406			- 4		1				
-	(P.No.155, I.No.20.18 of PW,P&IWTD S	D 0010	10)	-					*	
	Area	K 2018	- 19)	9	24.	40	0.25	54.90		
_								54.90	2001.28	109870
.04	KSRB 14.6-6: Providing and laying	a								
	heavy duty interlock concrete paver	Sqm							1	
	block 60mm thick 300mm X 300mm			- 1			- 1			
	using cement and course sand for			- 1				- 1	11	
	manufacture of blocks of approved							= "		
	size, shape and colour with a						- 1			
- 4						- 1				
	minimum compressive strength of 281								1 .	
	kg per Sqm over 50mm thick sand bed				- 1				× 1	
	(average thickness) and compacting				1	- 1	- 1			
	with plate vibrator having 3 tons				1				100	
	compaction force thereby forcing part			. [
	of sand underneath to come up in							9		
	between joints, final compaction of	- 1				- 1				
	paver surface joints into its final level,	- 1			1			,		
	including cost of materials, labour									
	and HOM of machineries complete as									
	per specifications.									
	Specification No. KBS									
-	(P.No. 102 T.No. 140 CONV. DO VIVED	2212								
	(P.No. 103, I.No. 14.6 of PW.P&IWTD SR Area	2018-1	9)	9	24.4	0		610.00		
					24.4			219.60 219.60	1116.18	045110
5	Providing and fixing Precast solid N	los.						213.00	1110.18	245113.
	concrete kerb stones made out of								100	
	CC 1:2:4 and finished with CM 1:3	1								
	plastering and finishing cutting etc.,									
	complete.									
	Size 450 x 150 x 500mm									
-	(P.No.27, I.No.5.29.2 in PW,P&IWTD SR	2018 -	19)	+						
-	Area			9	27.00			243.00		-
							Say	243.00	467.46	113592.7
_										

THE WASPACE OF SUITANTS

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No.	Sl. No.	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amoun
9.00	Providing To est St	1 20		in m	3			in Rs.	in Rs.
	Providing Traffic Signs, Lane	Markin	g, Pedestr	ian Cross	ing, Stud	ls, etc.		122 2031	III Its.
9.01	KSRRB M800 - 13: Road Marking wit	h Sqm		1	T	1		T	
	Hot Applied Thermo plast	ic			1			1	
	Compound with Reflectrising Glas	ss		1					
	Beads on Bituminous surface	e/	1						
	Concrete Surface: Providing an	d					1		
	laying of hot applied thermoplast	ic				0			11
	compound 2.5mm thick including	9							
	reflectorising glass beads at 250 gm	S							
	per Sqm area, thickness of 2.5mm i	9							
	exclusive of surface applied glas								1 3.
	heads as per IRC:35 Standard								hit are
	specified. The finished surface to be				1			10.00	1
	level, uniform and free from streak				1 1				H vita
	land hales								1
	and holes complete as per specifications.	r							
	MORTH Specification No. 803.					- 1			
	(P.No.182, I.No.24.15 in PW.P&IWTD	CD core							
	Edge line	SR 2018	- 19)					A Section 1	
	Ch 0 to 350	+	3	250.00	0.15			Mo	10.00
	Ch 350 to 800		4	350.00 450.00	0.15		157.50		
	Ch 800 to 900		2	100.00	0.15		270.00		ALC: NO
	Ch 900 to 2600		2	1700.00	0.15		30.00	1 7	
	Broken Line For Centre 50% of			1100.00	0.15		510.00		
	Straight line)		- 1				2 4 1		
	Ch 0 to 2600	0.50	2	2600.00	0.10				
	Pedestrain Crossing	0.50	1	353.00	3.00		260.00	-	
	Busbay		2	10.0			529.50		La contractor de la con
	Cycle Track		16	5.0			20.00		-
	Lane Arrows		6	5.0			80.00		
	Edge line Cross Roads			0.0			30.00		
			4	30.00	0.15		10.00		
-			2	30.00	0.15		18.00		
-			4	30.00	0.15	-:-	9.00	-	-
			4	30.00	0.15		18.00		
-		Alexander .	2	30.00	0.15		18.00		
-	Centre Line Cross Roads	0.50	2	30.00	0.10		9,00		
-		0.50	1	30.00	0.10		1.50	-	-
-		0.50	2	30.00	0.10		3.00		
-		0.50	2	30.00	0.10		3.00		-
		0.50	1	30.00	0.10		1.50		
							1971.00		277
(Ch 0 to 2600 Centre Line	0.50		0000 00	A				
I	Broken Line For Centre 50% of		2	2600.00	0.15		390.00		
5	Straight line)	•							
-		0.50	2	2600.00	0.10		260.00		
-					V.120		650.00		
						Say	2621,00	454.74	1191874.0

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Sl. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
9.02	Providing and fixing of Retro	NI	-						
0.02	reflectorised cautionary, mandatory	Nos.		1.				- NW-198-	
	informatory sign as per IRC:67 made	,							
	of high intensity and a short	е			1				7 7 5 7
1	of high intensity grade sheeting vide	е						13-	
	Clasue 801.3, fixed over aluminium	1	-		1		100	F 2 6 8-1	1100
1	sheeting, 1.5 mm thick supported on a	a l					5.7		
	mild steel angle iron post 75mm	C						1	
	75mm x 6mm firmly fixed to the	9			1 1			1	
-	ground by means of properly designed	1	1				_ 4		
	foundation with M15 grade cement	t						1	
11.	conrete 45cm x 45cm x 60cm, 60cm				1		1 12 7		1 - 1
	below ground level as per approved				1 1	27		4 .	
	drawing.				1 1			4	
	(P.No.180, I.No.24.2.4 in PW,P&IWTD	SR 2018	8 - 19)						
1.	600 X 800mm - Type XI								
	Informatory sign boards		24				24.00	4342.82	104227.
b.	600mm Circle - Type XI	Nos.							
	(P.No.180, I.No.24.2.3 in PW,P&IWTD	SR 2018	3 - 19)						
pur	Compulsory Cycle Track, No Parking,	1							
	Turning Movement		48						
to the same	Tarming Movement .		- 10					2	
			48				48.00	3309.32	158847.3
	900mm Equilateral triangle - Type XI	N					A LIVE MAN		
	Somm Equitateral triangle - Type XI	Nos.		47					None and the
1	(P.No. 180, I.No. 24.2.1 in PW, P&IWTD	SR 2018	- 19)						4
	Pedestrian crossing sign boards		16				10.00	2021.2	
			10				16.00	3661.24	58579.8
	900mm Octagon Stop Board- Type XI	Nos.						-	
	(P.No.180, of I.No.24.2.6 in PW,P&IWT)	D CP CO	10 10)						Acceptant to
	(2 .2.0.200, 01 1.1.10.24.2.0 III F W, P&I W I)	J SK 20.		-					I was to be
7			9				9.00	5349.82	48148.3
									20220.0

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Supply and fixing of Retro Reflective Sqm Single Arrow Road Name Signboard of Single Arrow Road Name Signboard of Single Arrow Road Name Signboard of retro reflective sheeting conforming to Type XI standards of ASTMD 4956-09 and as per IRC 67-2012 for full back ground of blue colour and white letters and fixed over 4mm thick Alluminium Composite Material sheet having minimum 0.5mm thick Aluminium akin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm X 20mm X 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 Nos. of vertical posts of 50mm OD stainless steel pipe of 202 grade fruly fixing to the ground by means of properly designed foundation of size 450mm X 450mm X 600mm in 1.1.0.3 ratio coment concrete. The background shall be blue in colour with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Typt-XI reto reflective sheeting offered shall be submitted by the contractor for technical qualifician tender. P.No. 190 of INo.24.59. in PWP&IWTD SR 2018-19)	SI. No.	SI. No.	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
38mm OD stainless steel pipe all round in 304 grade and 2 Nos. of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixing to the ground by means of properly designed foundation of size 450mm X 450mm X 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in colour with letters and border in white, the item includes earthwork exeavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete, as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Typt-XI reto reflective sheeting from the sheeting manufacturer and a certified copy of text reports from indipendent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualifician tender.	lo.	Supply and fixing of Retro Reflective Single Arrow Road Name Signboard of size 1600mm X 900mm made out of retro reflective sheeting conforming to Type-XI standards of ASTMD 4956-09 and as per IRC 67-2012 for full back ground of blue colour and white letters and fixed over 4mm thick Alluminium Composite Material sheet having minimum 0.5mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm	Sqm	No.	Length in m	Breadth in m		Quantity	Rate in Rs.	Amount in Rs.
work clause 6.9 of IRC 67-2012 for Typt-XI reto reflective sheeting from the sheeting manufacturer and a certified copy of text reports from indipendent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualifician tender. (P.No.190 of I.No.24.59. in PW.P&IWTD SR 2018 - 19)		38mm OD stainless steel pipe all round in 304 grade and 2 Nos. of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixing to the ground by means of properly designed foundation of size 450mm X 450mm X 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in colour with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete as					8 6			
sheeting manufacturer and a certified copy of text reports from indipendent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualifician tender. (P.No.190 of I.No.24.59, in PW.P&IWTD SR 2018 - 19)		work clause 6.9 of IRC 67-2012 for Typt-XI		×				121 238		
submitted by the contractor for technical qualifician tender. (P.No.190 of I.No.24.59, in PW.P&IWTD SR 2018 - 19)	1	sheeting manufacturer and a certified copy of text reports from indipendent test laboratory conforming to clause 3.7 of IRC 67-2012 including outdoor weather exposure report for the retro								
6	t	submitted by the contractor for echnical qualifician tender.					-			
	1	1.No.130 of 1.No.24.09, in PW.P&IWTD S	R 2018					200	1400/110	

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Supply and fixing of Retro Reflective Double arrow road name sign board of size 2000mm X 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over the thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel ipe all round in 304 grade and 2 nos	Sqm		in m	in m	in m		in Rs.	in Rs.
board of size 2000mm X 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over timm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel						X **	e magin	
made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over timm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel						X **		
conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over mm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel								
conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over mm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel								
ASTM D 4956 - 09 & as per IRC 67 - 2012 for full back ground of blue colour & white letters and fixed over timm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel						¥ ***		
2012 for full back ground of blue colour & white letters and fixed over amm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel		*						
colour & white letters and fixed over a mm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS angle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel								13.24
Amm thick Aluminium Composite Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel								7/
Material sheet having minium 0.5mm hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel				1 1			1 4	
hick Aluminium skin on both sides with back side painted grey colour and ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel								
with back side painted grey colour and ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel					h			
ixed over back support frame SS ingle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel							1	1
ngle of 15mm X 20mm X 1.2mm, upported by 38mm OD stainless steel			1			24	1 1	
upported by 38mm OD stainless steel								
ipe all round in 304 grade and 2 nos								1 100
the all round in 304 grade and 2 noch			1					130
To and a state and a most	- 1			1 1			1 1 2 2	
f vertical posts of 50 mm OD				1 1				
tainless steel pipe of 202 grade firmly								
xed to the ground by means of	1				- 1	-27		
roperly designed foundation of size	- 1							
50mm X 450mm X 6Q0mm in 1:1.5:3			1	- 1		1.7		
atio cement concrete.			0.65 (1)				7	
complete as per elever 60 GIDG	- 1		1 1			764	- 1181	
7 - 2019 for True VI					- 1			
				1				
	-							
anulacturer and a certified copy of			1 1			1		
at reports from indipendent test							70	
boratory conforming to clause 6.7 of			1 1				0_	
C 67 - 2012 including outdoor			1 1					
eather exposure report for the retro						30.1	1 2 2	
flective sheeting offered shall be			1	1				
bmitted by the contractor for	1			1				
chnical qualifician in the tender						70.4		
No.190 of I.No.24.60, in PW P&IWTD 9	SR 201	9 10)						
	SIC 201.						10. 6.	
					**	6.00	16732.1	100392.
				06	කම ක්ත	තුಯ පයිಯಲ್ಲಿ) ವಿತರಿಸಲಾಗಿ	\ದ"
				9000	-			
The set of the	alloading, lead, lift, transportation c. complete. as per clause 6.9 of IRC 7 - 2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of at reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro elective sheeting offered shall be builted by the contractor for chinical qualifician in the tender	c. complete. as per clause 6.9 of IRC 2-2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of at reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro elective sheeting offered shall be builted by the contractor for chinical qualifician in the tender	complete as per clause 6.9 of IRC 2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of ext reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro elective sheeting offered shall be britted by the contractor for chnical qualifician in the tender.	alloading, lead, lift, transportation c. complete. as per clause 6.9 of IRC c. 2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of at reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro elective sheeting offered shall be builted by the contractor for chinical qualifician in the tender.	c. complete. as per clause 6.9 of IRC 1-2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of ext reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro effective sheeting offered shall be bomitted by the contractor for chnical qualifician in the tender. No.190 of I.No.24.60, in PW,P&IWTD SR 2018 - 19) 6	alloading, lead, lift, transportation of complete, as per clause 6.9 of IRC 1-2012 for Type-XI retro reflective seeting from the sheeting anufacturer and a certified copy of ext reports from indipendent test coratory conforming to clause 6.7 of 1.0 C 67 - 2012 including outdoor seather exposure report for the retro effective sheeting offered shall be be benitted by the contractor for chnical qualifician in the tender. No.190 of I.No.24.60, in PW.P&IWTD SR 2018 - 19) 6	complete as per clause 6.9 of IRC 1-2012 for Type-XI retro reflective eeting from the sheeting anufacturer and a certified copy of ext reports from indipendent test coratory conforming to clause 6.7 of C 67 - 2012 including outdoor eather exposure report for the retro effective sheeting offered shall be bomitted by the contractor for chnical qualifician in the tender. No.190 of I.No.24.60, in PW.P&IWTD SR 2018 - 19) 6 6.00	alloading, lead, lift, transportation of complete, as per clause 6.9 of IRC of 2012 for Type-XI retro reflective seeting from the sheeting anufacturer and a certified copy of extractory conforming to clause 6.7 of C 67 - 2012 including outdoor seather exposure report for the retro elective sheeting offered shall be

S1. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
0.05		Nos.							
	installation of Moulded Shank Raised							Land to the first	
	Pavement Markers made of							1 -1	
	polycarbonate and ABS (Acrylonitrile			1					-
	Butadiene Styrene) moulded body and								1 00
	reflective panels with micro prismatic								
1	lens capable of providing total internal								
	reflection of the light entering the lens								
	face and shall support a load of 16000								1-1-10
	kg tested in accordance to								
	Specifications of category A of							7	
	MORTH Circluar No.		1 1/1						
	RW/NH/33023/10-97, - DO III Dt								
	11.06.1997. The height, width and								17.7
	length shall not exceed 50mm, 100mm			4					
	and 102mm and with minimum								
- 3	reflective area of 13Sqcm on each side						f + x + x + x + x + x + x + x + x + x +		8
	and the slope to the base shall be 35						, "	- 1	
	degree. The strength of detachment of								
	the integrated cylindrical shanks, (of				1 1	N 4	V * 9		
	diameter not less than 19mm and				4				4. 7
	height not less than 30mm) from the					1			
V					1				
	minimum value of 500kg. Fixing will be by drilling holes on the road for the				1			16	
	shanks to go inside, Without nails and				1				
	using epoxy resin based adhesive as							- 2	
	per manufacturer's recommendation								
	and complete as directed by the			- 2		- 1			
	engineer.	200				- 1	8	1 1	
	(P.No.187, I.No.24.41 of PW,P&IWTD SI	D 9010	10)						
	Edge line	1 2010	- 13)			-			
	Ch 0 to 350		467						
	Ch 350 to 800		900				467		
1-59	Ch 800 to 900		133				900		
	Ch 900 to 2600		2267				134		
- 1	Pedestrain Crossing		177				2267		
	7777118		111		**		177		
			-				3945	1000	
100		1000				Say	3945	357.22	1409233

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SI. No.	Sl. No.	Unit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate	Amount
06	Supply & Installation of Rigid	Nice	_	in in	in m	in m		in Rs.	in Rs.
	Median Marker made of tough, high	1403.		1					
									12.05
	impact resistant, injection -molded,								11 70 7
	thermoplastic body with an isosceles					1007			13.
	trapezoidal structure of length, width								11
	and height not less than 15cm, 10cm		1				1 10	1 : 1	
	and 10cm respectively and thickness		1					1	3 24 5
	not less than 1.8mm, the body							1	
	structure shall be rounded suitably							1 1 1	1.
	The plastic used for molding the							1 1	
	Median Marker shall conform to								
	ASTM D256. The logo of the				1 1			1 2 2	
	manufacturer shall be embossed on				1 1			L. 1	
	either side of the body in the injection								
	molding process.			100	1 - 1			. : .	
	mording process.				-				
	The Median Marker shall have		V	100	1		*	3 10	
	nostangular aland G				1				
	rectangular - shaped, fluorescent		_		1				17 3
	yellow color retro - reflective sheeting		E)	72					
	of size not less than 8.5cm*8.5cm and		5.5	- 3.4	1				
	with fully reflective micro prismatic				1 1	100			
	cube corners as its retro - reflective				1				
	elements as per IRC 67 2012. The				1	- 1			
	retro - reflective sheeting shall be a						e 18		1.00
	one or both sides of the Median				1	- 1			1 1 3
	Marker and shall be edge protected				1			8	
	with no exposed edges which will	- 1			1	1		1.0	
	prevent edge lifting, vandalism,				1				
	sheeting damage, etc. The Median						, i		
	Marker shall be fixed by a					1			
	combination of epoxy adhesive and	- 1	- 4					•	
		1				- 1	1		
	grouting.								
	(P.No.189 of I.No.24.56 in PW,P&IWTD	SR 201	8 - 19)						-
_	From Ch: 350m to Ch: 810m		92				92		
	For Median both sides		490				490		
-	At Every 5m Spacing					Say	582	471.70	274529.
7	KSPPR Mean 42: Installation of I							212110	211020
	KSRRB M800-43: Installation of a E	ach	1			- 1			
	steel portable barricade with		1	1					
	horizontal rail 300mm wide, 2.5m in								
	length fitted on a 'A' frame made with	- 1	3 1				4 200		
- 11	45 x 45 x 5mm angle iron section,		1						
		- 1		1					
	1.5m in height, horizontal rail painted	1			- 1	- 1		S 100 100 100	
	1.5m in height, horizontal rail painted (2 coats) with yellow and white								
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of								
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of								
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of								
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of yellow paint, complete as per IRC: SP:								
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of yellow paint, complete as per IRC: SP: 55 - 2001 complete as per					3			
	1.5m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of yellow paint, complete as per IRC: SP:	2018 -	19)			3 1			

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SI. No.		Jnit	No.	Length in m	Breadth in m	Depth in m	Quantity	Rate in Rs.	Amount in Rs.
9.08	KSRRB M800 - 15: Road N Delineators: Supply & installation of Vertical Delineator having wide angle cube corner micro prismatic non metallic reflective sheeting Conforming to Type - XI of IRC: 67 - 2012 with White and Red colour combination and having minimum of retro reflective exposed area of 125Sqcm on top slots and 35Sqcm on bottom slots and no edges shall be exposed for tampering. This tubular delineator shall have a core and shell construction, shell shall be made of tough, high impact resistant, injection moulded, thermoplastic outer body and the inner core shell consist of power coated or painted mild steel of minimum thickness 1.0mm and coreshell structure shall be of height not	los.		In m	in m	in m		in Rs.	in Rs.
	less than 800mm above the ground						•		
	(P.No.182 of I.No.24.19 in PW.P&IWTD S	R 201	8 - 19)						
			26				26 Total Amount	1963.12	51041.0 5592962.1
0.00	Tree Transplantation								
0.01	Transplantation and Treatement for Ea the Trees coming in the widened portion of Carriageway as per directions of Engineer - in - charge	ich						1.43	
	BBMP Approved Rate					-			
_					4		205	19900.00	4079500.0
-							Total Amount		4079500.0

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Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Name of Work: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) in Bengaluru City

Detailed Cost Estimate for Street Illumination

PW, P&IWTD SR, Electrical Works 2019 - 20

	tem No.	Description	Unit	Quantity	Rate in	Amount i
		Wires and Cables				
2	2.3.3	insulated 1100V grade, multistrand Copper Wire with low		8800.00	32.00	281600.0
		Luminaries / Light Fixtures & Accessories				
7 1		Aluminium Housing Body for Optimal Thermal Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser with Injection moulded Polycarbonate Material, delivering superior Light Output. Rate Life Burning hrs. 50000 hr. @ Lumen Maintenance of 70%, Maximum Light Intensity should be between 60 degrees and 70 degrees, CCT > 5500K, IP 66 Optical and Electrical Compartment and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9 with Mains, Surge Protection minimum 5KV along with Over Voltage / Overload, Short Circuit / Miss - Wiring Protection. Compatible for Pole Mounting with Outer Dia of 40mm to 50mm. Universal Voltage Driver to operate wide Voltage range from 100V to 270V 50 / 60 Hz Application. Compliance to IS: 10322 / IEC 60598, LM 79 and LM 80 adherence with RoHS UL approved MCPCB. Top access Street Light with Single Screw to ensure ease of maintenance at the Sight Site Location with minimised minimal Tools. LED Light Fixture with 150 Watts System Power consumption. LED Efficiency > 130 lm / w, nominal CRI > 75. Luminaire Manufacturer should have in house Facility accredited by NABL / CPRI and any Government certified Agency and Design and Development Facility certified by ISO 9001: 2008. Housing with Supplier Word Mark / Name shall be engraved / embossing on the Die Cast Housing / Body Part. Warranty of 2 Years against any Manufacturing Defect working under Standard Electrical Conditions as mentioned above should be given by LED Manufacturer and Cree / Nichia / Lumileds / Osram Make LED	No.	260.00	12300.00	3198000.00
1.0						
4.2	s a a 4 p	Galvanized Octagonal Pole with BSEN 10025 grade S 355 JO steel plate of shaft, IS: 2062 for base plate with door opening arrangements, including suitable boards, bakelite sheet and MCBs as per IS Specification suitable to withstand the Wind Speed of 17m / sec for 11m Pole in single section and single joint welded as	ach	260.00	20698.00	5381480.00
	7 1	2.3.3 12.8.6	2.3.3 Wiring for Lighting / Power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper Wire with low conductor resistance single core wire in open or concealed system of wiring with specified IS: 694 conforming to the latest Amendments 2.5 Sqmm (from Pole Box to Light Fixture) Luminaries / Light Fixtures & Accessories 12.8.6 Supply of LED Streetlight Luminaire with Pressure Die Cast Aluminium Housing Body for Optimal Thermal Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser with Injection moulded Polycarbonate Material, delivering superior Light Output. Rate Life Burning hrs. 50000 hr. @ Lumen Maintenance of 70%, Maximum Light Intensity should be between 60 degrees and 70 degrees, CCT > 5500K, IP 66 Optical and Electrical Compartment and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9 with Mains, Surge Protection minimum 5KV along with Over Voltage / Overload, Short Circuit / Miss - Wiring Protection. Compatible for Pole Mounting with Outer Dia of 40mm to 50mm. Universal Voltage Driver to operate wide Voltage range from 100V to 270V 50 / 60 Hz. Application. Compliance to IS: 10322 / IEC 60598, LM 79 and LM 80 adherence with ReHS UL approved MCPCB. Top access Street Light with Single Screw to ensure ease of maintenance at the Sight Site Location with minimised minimal Tools. LED Light Fixture with 150 Watts System Power consumption. LED Efficiency > 130 lm /w, nominal CRI > 75. Luminaire Manufacturer should have in house Facility accredited by NABL / CPRI and any Government certified Agency and Decign and Development Facility certified by ISO 9001: 2008. Housing with Supplier Word Mark / Name shall be engraved / embossing on the Die Cast Housing / Body Part. Warranty of 2 Years against any Manufacturing Defect working under Standard Electrical Conditions as mentioned above should be given by LED Manufacturer and Cree / Nichia / Lumileds / Osram Make LED Source. LED Streetlight 150 Watts 4.2.9 Fabricating, supplying and erection of 11m long hot dip E	Wires and Cables 2.3.3 Wiring for Lighting / Power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper Wire with low conductor resistance single core wire in open or concealed system of wiring with specified IS: 694 conforming to the latest Amendments	2.3.3 Wiring for Lighting / Power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper Wire with low conductor resistance single core wire in open or concealed system of wiring with specified IS: 694 conforming to the latest Amendments	2.3.3 Wiring for Lighting / Power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper Wire with low conductor resistance single core wire in open or concealed system of wiring with specified IS: 694 conforming to the latest Amendments

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Sl. No.	Pag No.	e Item No.	Description	Unit	Quantity	Rate in Rs.	Amount i
2.3	16	4.7.6	Supplying, and fixing of Hot Dip Galvanized M. S. Bracke suitable for Outdoor Luminaries and mounted on Octogonal Pousing necessary Bolts, Nuts, etc. complete.	et Each	260.00	3696.00	960960.0
			Double Arm Bracket with 2000mm Standard 40 / 50 mm dia			25-	
3.0			LT UG Cables	-			
			Earthing for Feeder Pillar	-		-	
3.1	40	6.2	Supplying, fixing and wiring Earth Electrode for grounding of Lifts, Transformers, DG Sets, etc. using 40mm dia 2.9mm thick 2.5m long GI Pipe with GI Funnel with Mesh and suitable Size Reducer fixed on the Top of the Earth Electrode. The Funnel should be enclosed in a CC Chamber of 400 X 400 X 400mm with a Cast Iron Cover. The Earth Electrode shall have Staggered Holes of 12mm dia and the Electrode should be covered 150mm alround with Alterate Layers of Salt and Charcoal from the bottom of the CC Chamber. The Connection from the Electrode is to be	k 1 1 a f	6.00	4150.00	24900.0
-			established through GI Strip using GI Bolts and Nuts.				-
.2	40	6.3.1	Supplying and running of GI / Copper Strips for grounding Connections using necessary Fixing Materials as required.	Mtr.	75.00	75.00	5625.00
			25 X 3mm GI Strip				
.3	40	6.4.2	Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistant PVC insulated, PVC extruded Inner Sheath armoured UG LT Cable as per IS: 1554 (Part 1) or IS: 7098 Part 1. Armouring Strip Thickness in Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 3975	100	5500.00	130.00	715000.00
			4 Core 10 Sqmm				
4	40	6.4.4	Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistant PVC insulated, PVC extruded Inner Sheath armoured UG LT Cable as per IS: 1554 (Part 1) or IS: 7098 Part 1. Armouring Strip Thickness in Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 3975	Mtr.	300.00	150.00	45000.00
			4 Core 16 Sqmm				
5	41	6.5.1	Labour Charges for laying of 1.1 KV Class UG Cable in existing I Trench GI Pipe / Stoneware Pipe / on Wall / on Pole as required.	Mtr.	5300.00	11.88	62964.00
			In existing Trench / Duct				
			6 Sqmm to 16 Sqmm			2	
	41		Labour Charges for laying of 1.1 KV Class UG Cable in existing Market Trench GI Pipe / Stoneware Pipe / on Wall / on Pole as required. On Wall / Structure 6 Sqmm to 16 Sqmm	Atr.	500.00	30.00	15000.00
4	11 6	ľ	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench Meto the required ground level and consolidating, etc. In Soil (Ordinary)	Itr.	5300.00	76.00	402800.00
4	1 6	.6.2 I	Digging of Trench of 0.6m Deep X 0.5m Wide refuling the Trench Mother required ground level and consolidating, etc.	tr.	200.00	102.00	20400.00
		I	n Soil (Hard)			-3.0	
4	1 6	.6.3 I	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench M to the required ground level and consolidating, etc.	tr.	200.00	82.00	16400.00
			Cutting Road Surface				*

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Sl. No.	Page No.	No.	Description	Unit	Quantity	Rate in Rs.	Amount i
3.10	41	6.6.4	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trento the required ground level and consolidating, etc. Asphalt Cutting	ch Mtr.	50.00	113.00	5650.0
3.11	41	6.6.5	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trenct to the required ground level and consolidating, etc.	ch Mtr.	50.00	205.00	10250.0
	-	-	C. C. Cutting				
3.12	42	6.11.2	Supplying and fixing of Heavy Duty Cable Glands suitable for UG Cable of 1.1 KV Class (metal only) 25mm dia	or Each	526.00	84.00	44184.00
3.13	42	6.9.5	Supplying and fixing of Class A (Medium Duty) GI Pipe of Wa Thickness not less than 3.25mm on Pole / Wall / Drain Crossin with necessary Clamping Arrangements for UG Cable of 1.1 KV. 100mm	ll Mtr.	300.00	890.00	267000.00
3.14	42	6.12.2	Supplying and making Straight through Cable Joint with Epox Resin including Ferruls and other Jointing Materials for PVC Insulated and PVC Sheathed Steel Tape, Wire armoured Aluminium Conductor 4 Core Cable of 1.1 KV Grade.	T Wit	2.00	1280.00	2560.00
.15	43	6.14	10 / 16 Sqmm Supplying Epoxy Resin and Covering the Cable Joint	Per Kg	1.00	870.00	870.00
.16	43	6.15	Supply and wrapping the Conductor with Camabrick Tape Roll	1	1.00	118.00	118.00
.17	43	6.17.5	Supplying tinned Copper Lugs and crimping and wiring to Terminal Point for Wire. 10 Sqmm	Each	2080.00	8.00	16640.00
18	40						
18	43	6.17.6	Supplying tinned Copper Lugs and crimping and wiring to Terminal Point for Wire.	Each	24.00	12.44	298.56
			16 Sqmm				
19	44		Supplying and running GI / Copper Conductor for grounding and (along with other Wires in Conduit System of Wiring) using necessary suitable size Clamps, Nails, Guttas / Spacers, etc.	Mtr.	11000.00	19.00	209000.00
			8 SWG GI Wire				
			Fixing Charges			-	
	79		Fixing Halogen / Metal Halide / SVL / IL / LED Flood Light fitting over existing Pole / Wall Ceiling including Clamps, Bolts, Nuts and Wiring using suitable capacity wires.	Each	260.00	175.00	45500.00
			External Lighting Feeder Pillar				
-	29 5	.33	Supplying of Multi Function Digital Meter with three line Back Light LCD type Display of Voltage, Current, Frequency, Power, Power Factor, KVA, KWH, KVAR suitable for 3 Phase, 4 wire LT Network with IP 54 degree of Protection and completely wired as required with Communication Port and Class 0.5s Accuracy.	Each	3.00	7750.00	23250.00
2	29 5	.34	Supplying, fixing and wiring 50 / 5 to 400 / 5 Amps 5VA burden I Current Transformer, Class 0.5 Accuracy with tape wound.	Each	9.00	468.00	4212.00

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Sl. No.	Page No.	Item No.	Description	Unit	Quantity		Amount i
5.3	29	5.38	Supplying and fixing of LED Type Panel Board indicating Lampuith required colour suitable for 230 / 440V A. C. 50HZ 12 / 24V D.C.	p Each	9.00	430.00	Rs. 3870.0
5.4	32	5.47	Supplying and fixing Microprocessor based Electronic Timer (without Contactor, Din Mounting using necessary Bolts, Nuts and Washers, etc.) 3 - 120 sec setting.	Each	3.00	1925.00	5775.0
5.5	26	5.13.3	Supply and fixing of 4 Pole Power Contactor with NO / NO Contacts on existing Wood / Panel Board using necessarry Bolts, Nuts, Washers and Wiring, etc. complete with AC - 3 Rating and as per IS: 13947		3.00	4200.00	12600.00
.6 2	27	5.17.9	Suplying and fixing Miniature Circuit Breakers on existing MCB Distribution Boards using necessary Fixing Materials and 'C' Type Curve, Indicator ON / OFF, Energy Cross - 3 with Short Circuit Breaking Capacity of 10K and complete Wiring as required conforming to IEC: 60898. In comer 50 - 63 Amps TPN		3.00	2397.00	7191.00
7 2	7 5	5.17.9	Suplying and fixing Miniature Circuit Breakers on existing MCB Distribution Boards using necessary Fixing Materials and 'C' Type Curve, Indicator ON / OFF, Energy Cross - 3 with Short Circuit Breaking Capacity of 10K and complete Wiring as required conforming to IEC: 60898.	Each	15.00	2397.00	35955.00
		-3.4	Out Going 50 - 63 Amps TPN			. v. v.	
31	5.	44.3	Supply and Installation / Fixing / Provision of Outdoor type E Thermoplastic Modular Panel enclosure with Transparent Polycarbonate Lid, Shock Proof, IP 65 (Weather Proof), Rust Proof, Dust Proof, Water Proof, Corrosion Proof having internally Embedded Gasket on both Lid and Flap suitable to fix Single Phase / Three Phase Energy Meter in suitable Base Plate and having a Provision for Fuse / MCB Cutout with suitable Transparent Hinged Flap Opening for operating MCB along with complete Tamper Proof SEALING Facility.	Cach	3.00	5713.00	17139.00
	Ma Ra	arket I	nterlinking Copper Strip, Copper Wires with Lugs, Bolt and Nut Es etween Busbar and Switch Fuse Unit, MCBs.	nch	3.00 1	0000.00	30000.00
			Grand Total			1	279101 56



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Bellary Road

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Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) an Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

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Name of Work: Widening of Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Sl. No.	Abstract of Detailed Cost Estimate	
1	Tarticulars	Cont. D
2	Site Clearence and Dismantling	Cost in Rs.
3	Construction of Compound	3875490.
3	Laying of Utility Ducts (Pipes for Storm Water Drain, Power Cables and OFC) and Cross Ducts	30444829.
4	and OFC) and Cross Ducts	57448658.
4	Construction of Footpath; Providing and Fixing of New Kerb Stones, Bollards and Railing and Construction of The Stones,	
5	Tree Guard W. 11	26995464.5
3	obtain of Median	
7	Construction of Culverts	8142796.0
	Carriageway Construction / Strengthening Works	4322443.9
	a. Construction of Carriagoway in the Will	
	The state of the s	41988975.4
		20146695.44
	Construction of Docking Stations	
	Providing Traffic Signs, Lane Marking, Pedestrian Crossing, Studs,	473544.76
0	Tree Transplantation Stude,	5276570.55
		1213900.00
	Construction Cost of Civil Works (A ₂) Construction Cost of Electrical Works (B ₂)	200329368.84
	detion cost of Electrical Works (B ₂)	
	Add GST @ 12% Total Construction Cost (C ₂) (A ₂ +B ₂)	7783745.04
-		208113113.88
	Total Construction Cost including GST	24973573.67
	Consultancy Charges for DPR Preparation and PMC Services	233086687.55
	Contingencies and other Charges	3121696.71
	other onarges	4162262.28
N	Miscellaneous and rounding off Sub Total	240370646.54
	Grand Total	129353.46
	Grand Total	240500000.00

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Project: Widening of Jayamahal Road (frommehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A.

Junction tomehkri Circle) in Bengaluru City

Name of Work: Widening of Bellary Road (from B. D. A. Junction tomehkri Circle) in Bengaluru City

<u>Detailed Cost Estimate</u>

1.	Description of work	1.	1	1-					
o.	1 20 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Unit	No.	Length	Breadth inm		Quantity	Rate	Amo
00	Site Clearence and Dismantling			IIIIIII	IIII	inm	L	in Rs.	in Rs
01	KSRRB - M200-26: Dismantling of Kerb Stone by	Rmt		T	T	T			
	Ivianual means and disposal of dismantled materials		1	1				*:	
	With all lifts and complete as per specifications			1			1 .		1
	MORTH Specification No. 202			1	*				1
	1.0								
	(P.No.141, I.No.18.49 of PW, P&IWTD SR 2018 - 19)	-				-	4		
_	western Side			1					1
	Ch: 100m to 150m							13.1	
	Ch: 150m to 200m		1	00.00			50.00		
	Ch: 200m to 250m	-	1	00.00			50.00		
	Ch: 250m to 300m	-	1	00.00			50.00		
	Ch: 300m to 350m		1	50.00			50.00		-
1	Ch: 350m to 400m		1	50.00			50.00		-
	Ch: 400m to 450m		1	50.00			50.00		
-	Ch. 450m to 450m		1			-	-	•	
	Ch: 450m to 500m		1				50.00		
-	Ch: 500m to 550m		1	50:00			50.00		
-	Ch: 550m to 600m		1	50.00			50.00		
-	Ch: 600m to 650m	_	1				50.00		
	Ch: 650m to 700m	-	1	50.00			50.00		
	Ch: 700m to 750m	-	1	50.00			50.00		
T	Ch: 750m to 800m		1	50.00			50.00		
	Ch: 800m to 850m		1	50.00			50.00		
7	Ch: 850m to 900m		1	50.00		774			
1	Ch. 850m to 900m		1	50.00			50.00		
+	Ch: 900m to 950m		1	. 50.00			50.00		
1	Ch: 950m to 1000m		1	50.00			50.00		
1	Ch: 1000m to 1050m		1	50.00			50.00		
1	Ch: 1050m to 1100m		1	50.00			50.00		
1	Ch: 1100m to 1150m	_	1	50.00			50.00		
-19	Ch: 1150m to 1200m	_	1				50.00		
49	Ch: 1200m to 1250m		1	50.00			50.00	2012	1
	Ch: 1250m to 1300m	_	-	50.00			50.00		
	Ch: 1300m to 1350m	-	1	50.00			50.00		No contract
10	Ch: 1350m to 1400m	_	1	50.00			50.00		
0	h: 1400m to 1450m		1	50.00			50.00		
C	Ch: 1450m to 1475m		1	50.00			50.00	-	
T	educt Cross Roads		1	25.00			25.00		
1~	cauct Cross Roads						20.00		
+			1	24.80			24.00	-	
1	*		1	21.32			-24.80	1	
A	t Kaveri Junction		1	99.00		••	-21.32		
-		_	1				-99.00		
		_		11.50	**		-11.50		
		_	1	12.40			-12.40		
			1	15.11			-15.11		
			1	13.38			-13.38		
E	astern Side						1177.49		
C	n: 0m to 50m						1177.49		
C	1: 50m to 100m		1	50.00			50.00		
C	1: 30m to 100m 1: 100m to 150m		1	50.00			50.00	-	
S	1. 150m to 200		1	50.00			50.00		
S	1: 150m to 200m		1	50.00					
S.	: 200m to 250m		1	50.00			50.00		
<u>رن ا</u>	: 250m to 300m		1	50.00			50.00		
Ch	: 300m to 350m		1	50.00			50.00		
	: 350m to 400m		1	50.00			50.00		
Ch	: 400m to 450m		1				50.00		
Ch	: 450m to 500m	_		50.00			50.00		
	: 500m to 550m	_	1	50.00		**	50.00		
	550m to 600m	_		50.00			50.00		
Ch	: 600m to 650m		21	50.00			50.00		
TL	650m to 700m			50.00			50.00	_	
	300 to 700m			50.00					
J.	700m to 750m		_	50.00			50.00		240
Jh:	750m to 800m		-	50.00			50.00		
Ch:	800m to 850m		-				50.00		
Ch.	850m to 900m	_		50.00			50.00		
b.	900m to 950m			50.00					
ch.	950m to 1000m								
	1000m to 1050m			50.00			50.00		
h:	900m to 950m 950m to 1000m		1	50.00			50.00 50.00		
	1000			50.00	**	77	50.001		

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	No.		Uni	t No.	Length	Breadth	Depth	Quantity	Rate	Amour
7	-	Ch: 1050m to 1100m			1 50.00		inm		in Rs.	in Rs.
		Ch: 1100m to 1150m			1 50.00			50.00		
)	-	Ch: 1150m to 1200m			1 50.00			50.00		
6	-	Ch: 1200m to 1250m			1 50.00			50.00		
	_	Ch: 1250m to 1300m			50.00			50.00		
)		Ch: 1300m to 1350m			50.00			50.00		
		Ch: 1350m to 1400m						50.00		
7		Ch: 1400m to 1450m			50.00			50.00		
		Ch: 1450m to 1475m		1	25.00			50.00		
*		Median from Ch: 550m to 1475m		1	925.00	-		25.00		
)						-		925.00		-
								2400.00 3577.49	-	
)	1.02	Removing B. S. Slab of Drain and Stacking		lan-			Say		10.50	-
31		P No 27 I No 5 20 : Drain and Stacking	Sqm				Jay	3578.00	12.72	4551
) 1		P.No.27, I.No.5.32 in PW, P&IWTD SR 2018 - 19) Western Side								
1		Ch: 100m to 150m								
		Ch: 150m to 200m		. 1	50.00	1.85		00.50		
,		Ch: 200m to 250m		1	25.20	1.50		92.50 37.80		
		Ch: 250m to 300m	4	1	50.00	1.50				-
1		Ch: 300m to 350m		1	50.00	1.50		75.00 75.00		- '
		Ch: 350m to 400m		1	50.00	1.50				
		Ch: 400m to 450m		1	50.00	1.50		75.00	-	
		Ch: 450m to 500m		1	50.00	1.50		75.00		
		Ch: 500m to 550m		1	50.00	1.50		75.00		
1		Ch: 550m to 550m Ch: 550m to 600m		1	50.00	1.50		75.00		
-		Ch: 750m to 600m		1	25.78			75.00		
	-	Ch: 750m to 800m		1	38.50	1.45 0.68		37.38		
-		Ch: 800m to 850m		1	50.00			26.18		
•	-	Ch: 850m to 900m		1		1.09		54.50	1	1
-		Ch: 1000m to 1050m		1	50.00	1.50		75.00		
	- (Ch: 1050m to 1100m			50.00	1.50		75.00		
		Ch: 1100m to 1150m		1	50.00	1.35		67.50		
-		Ch: 1150m to 1200m	-	1	50.00	1.20		60.00		
	(Ch: 1200m to 1250m		1	50.00	1.20		60.00	7 7 7	-
-		Ch: 1250m to 1300m		_ 1	41.89	1.20		50.27		
L		Ch: 1300m to 1350m	\rightarrow	1	44.09	1.20		* 52.91		
		Ch: 1350m to 1400m	- .	1	50.00	0.60		30.00		
-	· C	Ch: 1400m to 1450m		1	38.80	1.20		46.56	-	
1	10	Ch: 1450m to 1475m		- 11	50.00	1.20		60.00	_	
_			-	1	25.00	1.20		30.00		1
	E	astern Side		_				1380.60		-
	C	h: 0m to 50m			(_	
	C	h: 50m to 100m		1	50.00	1.30		65.00		
	_ C	h: 100m to 150m		1	50.00	1.40		70.00		
in the same of the	C	h: 150m to 200m		1	50.00	1.50		75.00		
	C	h: 200m to 250m		1	50.00	1.50				
	C	h: 250m to 300m		1	50.00	1.50		75.00		
-	C	a: 300m to 350m	1	1	50.00	1.50		75.00		
	· C	a: 350m to 400m		1	50.00	1.50		75.00		
	CI	1. 350m to 400m		1	50.00			75.00		
_	CI	1: 400m to 450m		1	50.00	1.50		75.00		
	- Cr	1: 450m to 500m		1		1.50		75.00		
_	Ch	1: 500m to 550m		1	50.00	1.45		72.50		
-	Ch	: 550m to 600m		_	50.00	1.65		82.50		
1	Ch	: 600m to 650m		1	50.00	1.85	**	92.50		
_	Ch	: 700m to 750m		1	50.00	1.30		65.00		
	_Ch	: 750m to 800m	+	1	50.00	1.15		57.50		
_	Ch	: 1150m to 1200m			50.00	1.50		75.00		
	Ch	: 1200m to 1250m			50.00	1.10		55.00		277-27
	_Ch:	: 1250m to 1300m			50.00	1.25		62.50		
	Ch:	1300m to 1350m			50.00	1.40		70.00		
	Ch:	1350m to 1400m	 	-	50.00	1.75		87.50		
_	Ch:	1400m to 1450m			50.00	1.80		90.00		
	Ch:	1450m to 1475m			50.00	1.80		90.00		10
				1	25.00	1.65		41.25		
				-				01.25	-	
								81.85	_	
13	KSF	RRB - M200-25: Dismantling of guard rails by				S			04	0007
	Mar	bismantling of guard rails by	m				23	82.00 104	.94 31	2931.08
	with	aual means and disposal of dismantled materials						-		
_	With	all lifts and stacking serviceable materials and							.]	
	unse	rviceable materials seperately complete as now					1			
	spec	Tications.				1				
	distribution of the	DMTT G		1	1 37		1	1	1	- 1
_	MOI	RTH Specification No. 202 140, I. No 18.48 of PAW, P&WIT of SR 2018 - 19)	1			1		1	1	



No.	Description of work Western Side	Unit		Length	Breadth inm	Depth	Quantity	Rate in Rs.	Amount in Rs.
	Eastern Side	+	1	5.50			16.5		
		-	- 2	5.50			11:.0		
				1		Say	27.5		
1.04	KSRRB · M200-15.2: Dismantling of existing structure like culverts, Bridges, Retaining Walls and other	r				Say	28.0	92.2	2 2582
	Structures comprising of masonry, cement concrete	.							
	wood work, steel work, including T&P and scaffoldin	g					,		
	wherever necessary, sorting the dismantled material	l,							
	disposal of unserviceble material and stacking the serviceble material with all lifts complete as pe	е							
	specifications.	r			12				
	iii) Dismantling Stone masonary B. Rubble Stone						521		
	masonry, in cement mortar, SSM								
-	(P.No. 140, I.No. 18.27 of PW, P&IWTD SR 2018 - 19)		-5-710-2						
	Western Side								
	Eastern Side		2	1380.60	0.45	0.80	994.03		
	Compound Wall(Eastern Side)		2	1601.25	0.45	0.80	1152.90		
	Sub Structure		- 1	207.00	0.75				
Δ.			1	895.00 895.00	0.75	0.25	167.81		
-			1	895.00	0.60	0.60	322.20		
-	Super Structure		1	895.00	0.45	2.20	181.24		
-					0.00	2.20	1181.40 3999.58		
.05	KCDDD Moss of The					Say	4000.00		1488240.0
.05	KSRRB - M200-13.1: Dismantling of existing structures	Cum				~	1000.00	312.06	1488240.0
	like culverts, Bridges, Retaining Walls and other				- 1				
	Structures comprising of masonry, cement concrete,		- 1						
1,	wood work, steel work, including T&P and scaffolding		- 1	.		- 1			
	wherever necessary, sorting the dismantled material,							1	
	disposal of unserviceble material and stacking the		- 1		1				
5	serviceble material with all lifts complete as per				- 1			9	
1	I. by mechanical means,				- 1				
£	A. Cement Concrete Gradem 15 & m20					- 1	1		
1	.No.139, I.No.18.20 in PW P&IWTD SP 2019 10)		-						
1	Drain		_						
T	Vestern Side Lastern Side		1	1380.60	0.80	0.35	386.57		-
C	Compound Bed Concrete (PCC)			1601.25	0.80	0.35	448.35		7
C	Coping		1	895.00	0.90	0.15	120.83		
	7	_	1	895.00	0.60	0.10	53.70		
10		_					1009.44		
06 D	Dismantling A. C. Sheet Roofing and Stacking the	Sam	_			Say	1010.00	413.40	417534.00
11	laterial within a radius of 50m including cost of	Jun			1				
n	naterials, labour, HOM complete as per	1		170					
	pecifications.	- 1						10	
P	.No.269, I.No.37.42.3 in PW, P&IWTD SR 2018 - 19)								100
C	h: 1010 to 1080m		1	70.00		2 90	100.00	-	
				10.00		2.80 Say	196.00	10101	
7 R	emoving and resetting of Footpath Slab	qm				Say	196.00	104.94	20568.24
- IX	.No.270, I.No.37.56 of PW, P&IWTD S.R 2018 - 19)						-		
C	estern Side h: 100m to 150m								
C	h: 150m to 200m		1	50.00	0.45		22.50		
CI	n: 200m to 250m		1	25.20	0.70		17.64		
	n: 250m to 300m	_	-1	50.00	0.95		47.50		
CI		_	1	50.00	1.13		56.25		
CI	n: 300m to 350m		1	50.00	1.40		70.00		
CI CI	n: 350m to 400m				1.20		62.50		
CH CH CH	n: 350m to 400m n: 400m to 450m		1		1.00		EO 001		
CH CH CH	n: 350m to 400m n: 400m to 450m n: 450m to 500m		1 1	50.00	1.00 0.75		37.50		-
Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 500m to 550m		1	50.00 50.00 50.00	1.00 0.75 2.35		37.50		
Ch	a: 350m to 400m a: 400m to 450m a: 450m to 500m a: 500m to 550m a: 550m to 600m		-	50.00 50.00 50.00 25.78	0.75 2.35 2.90		37.50 117.50		
CH CH CH CH	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 500m to 550m 1: 550m to 600m 1: 650m to 700m		1	50.00 50.00 50.00 25.78 50.00	0.75 2.35 2.90 3.80	-:-	37.50		
Ch Ch Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 500m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m		1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00	0.75 2.35 2.90 3.80 6.70		37.50 117.50 74.76 190.00 335.00		
Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 500m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m 1: 750m to 800m		1 1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45	0.75 2.35 2.90 3.80 6.70 7.10		37.50 117.50 74.76 190.00 335.00 273.00		
Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 500m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m		1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45 50.00	0.75 2.35 2.90 3.80 6.70 7.10 5.85		37.50 117.50 74.76 190.00 335.00 273.00 292.50		
Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 550m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m 1: 750m to 800m 1: 800m to 850m		1 1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45 50.00 50.00	0.75 2.35 2.90 3.80 6.70 7.10 5.85 3.40		37.50 117.50 74.76 190.00 335.00 273.00 292.50 170.00		
Ch Ch Ch Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 550m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m 1: 750m to 800m 1: 800m to 850m 1: 850m to 900m 1: 1000m to 1050m 1: 1050m to 1100m		1 1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45 50.00 50.00 50.00 50.00	0.75 2.35 2.90 3.80 6.70 7.10 5.85 3.40 4.40		37.50 117.50 74.76 190.00 335.00 273.00 292.50 170.00 220.00		
Ch Ch Ch Ch Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 550m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m 1: 750m to 800m 1: 800m to 850m 1: 850m to 900m 1: 1000m to 1050m 1: 1050m to 1100m 1: 1100m to 1150m		1 1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45 50.00 50.00 50.00 50.00 50.00 50.00	0.75 2.35 2.90 3.80 6.70 7.10 5.85 3.40 4.40 5.15		37.50 117.50 74.76 190.00 335.00 273.00 292.50 170.00 220.00 257.50		
Ch Ch Ch Ch	1: 350m to 400m 1: 400m to 450m 1: 450m to 500m 1: 550m to 550m 1: 550m to 600m 1: 650m to 700m 1: 700m to 750m 1: 750m to 800m 1: 800m to 850m 1: 850m to 900m 1: 1000m to 1050m 1: 1050m to 1100m		1 1 1 1 1 1 1	50.00 50.00 50.00 25.78 50.00 50.00 38.45 50.00 50.00 50.00 50.00	0.75 2.35 2.90 3.80 6.70 7.10 5.85 3.40 4.40		37.50 117.50 74.76 190.00 335.00 273.00 292.50 170.00 220.00		



No.	Description of work	Unit	No.	Length inm	Breadth inm	Depth inm	Quantity	Rate in Rs.	Amoun in Rs.
	Ch: 1300m to 1350m		1	50.00	2.95		147.50	-	ALL AVO.
	Ch: 1350m to 1400m		1	38.08	2.50		95.20		
	Ch: 1400m to 1450m		1	50.00			110.00		
	Ch: 1450m to 1475m	-	1	25.00	2.20		55.00		
	Eastern Side						3325.35		
	Ch: 0m to 50m	_							
	Ch: 50m to 100m	_	1	50.00	0.60	7-2-1	30.00		
	Ch: 100m to 150m	_	1	50.00	2.30		115.00		
	Ch: 150m to 200m	_	1	50.00	4.05	**	202.50		
	Ch: 200m to 250m		1	50.00	4.05	24	202.50		
	Ch: 250m to 300m		1	50.00	3.25		162.50		
	Ch: 300m to 350m		1	50.00	2.90		145.00		1
	Ch: 350m to 400m		1	50.00	2.75		137.50		1
-	Ch: 400m to 450m		1	50.00	1.83		91.25	-	
	Ch: 450m to 450m	-	1	50.00	1.58		78.75		-
	Ch: 500m to 550m		1	50.00	2.20		110.00		-
	Ch: 650m to 700m		1	50.00	2.65		132.50		
	Ch: 700m to 750m		1	50.00	3.09		154.50		
1	Ch: 750m to 800m		1	50.00	3.24		162.00		
	Ch: 800m to 850m		1	50.00	3.20		160.00		
	Ch: 850m to 900m		1	50.00	3.15		157.50		
	Ch: 900m to 950m	-	1	50.00	3.10		155.00		15.7
	Ch: 950m to 1000m		1	50.00	3.10		155.00	-	1
	Ch: 11000m to 1050m		1	50.00	3.10		155.00		1
	Ch: 11000m to 1050m Ch: 1050m to 1100m		1	50.00	3.10		155.00		
	Ch: 1050m to 1100m Ch: 1100m to 1150m		1	50.00	3.05		152.50		
-	Ch. 1150m to 1150m		1	50.00	2.80		140.00		-
-	Ch: 1150m to 1200m		1	50.00	2.60		130.00		
	Ch: 1200m to 1250m		1	50.00	2.53		126.25		
-					2.00				
_	Market Control of Cont						3210.25		iniza a re-
08	KSRRB 200-2: Cutting of trees girth girth from 300mr					Say	6535.60 6536.00	208.82	1364847
1	materials earth filling in the depressions / pit, labou charges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.1 of PW, P&IWTD SR 2018 - 19)	r							_
			_				12.00		+
)9 F	KSRRB 200-2: Cutting of trees girth girth from 600mm	Fach	#			Say	12.00	316.94	3803
r m cl	KSRRB 200-2: Cutting of trees girth girth from 600mm o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19)			-		Say		316.94	3803.
r n ci	o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2.					Say		316.94	3803.
r m cl	o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. 40RTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19)			-		Say	22.00		- /
IO K to re m ch	o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble laterials earth filling in the depressions / pit, labour larges complete as per specifications. MORTH Specification Clause 201/ Chapter 2.	Each					22.00	977.32	+ /
o K	o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble staterials earth filling in the depressions / pit, labour marges complete as per specifications.	Each					22.00 22.00		- /
IO K to re m ch	o 900mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble laterials earth filling in the depressions / pit, labour larges complete as per specifications. MORTH Specification Clause 201/ Chapter 2.	Each				Say	22.00 22.00 39.00	977.32	- /
True medical m	emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour narges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. No.138, I.No.18.3 of PW, P&IWTD SR 2018 - 19) SSRRB 200-4: Cutting of trees girth girth from 800mm to 2700mm including cutting of trunks, anches and removal of stumps roots stacking of rviceble materials earth filling in the depressions / t, labour charges complete as per specifications. ORTH Specification Clause 201/ Chapter 2.	Each					22.00 22.00	977.32	21501.
o K to re m ch M CP	emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour narges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. No.138, I.No.18.3 of PW, P&IWTD SR 2018 - 19) SRRB 200-4: Cutting of trees girth girth from 800mm to 2700mm including cutting of trunks, anches and removal of stumps roots stacking of rviceble materials earth filling in the depressions / t, labour charges complete as per specifications.	Each				Say	22.00 22.00 39.00	977.32	21501.0
True medical m	emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour harges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. P.No.138, I.No.18.2 of PW, P&IWTD SR 2018 - 19) SSRRB 200-3: Cutting of trees girth girth from 900mm in 1800mm including cutting of trunks, branches and emoval of stumps roots stacking of serviceble naterials earth filling in the depressions / pit, labour narges complete as per specifications. MORTH Specification Clause 201/ Chapter 2. No.138, I.No.18.3 of PW, P&IWTD SR 2018 - 19) SSRRB 200-4: Cutting of trees girth girth from 800mm to 2700mm including cutting of trunks, anches and removal of stumps roots stacking of rviceble materials earth filling in the depressions / t, labour charges complete as per specifications. ORTH Specification Clause 201/ Chapter 2.	Each				Say	22.00 22.00 39.00	977.32	21501.0 92725.6

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Sl. No.	Description of work	Unit		Length	Breadth	Depth	Quantity	Rate	Amount
1.12	KSRRB 200-4: Cutting of trees girth girth from	Fach		IIIIII	inm	inm	1	in Rs.	in Rs.
	branches and removal of stumps roots stacking of serviceble materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH Specification Glause 201/ Chapter 2						1		
	(P.No.138, I.No.18.5 of PW, P&IWTD SR 2018 - 19)								
							4.00		
.13	KSRRB - M200-32: Removal of Telephone / Electric					Say	4.00	7395.62	29582.4
	foles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separately complete as per specifications.MORTH Specification No. 202 (P.No.141, I.No.18,57 of P.W. P&IWTD, S.R. 2018, 10)	Nos.						. 930.02	2002.4
	Western Side		T			-			
-	Eastern Side		_				84.00		
		_					52.00		
1	CONTRACTOR CONTRACTOR	_	-	-			136.00	230.02	31282,72
					Acres de la constante de la co	Total	Amount		2875400 20



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SI. No.	Description of work	Unit	No.	Length	Breadth	Denth	Quantity	Rate	Amoun
2.00	Country	1		inm	inm	inm	Quantity	in Rs.	Charles Contraction of the Contr
2.01	Construction of Compound					1	1	in Rs.	in Rs.
2.01	KSRB 2-2.1: Earthwork excavation by Manual mean	s Cum							-
	for foundation of buildings, culverts, water supply an	d					1		1
	sanitary lines and electrical conduits, etc.either in pit	s			1	100	1	1 0	
	or in trenches 1.5m and above in width in ordinary								
	Soll not exceeding 1.5m in depth including dressing the				1				
	bottom and sides of pits and trenches stacking the				1				
	excavated soil clear from edges of excavation with loos	1					1.		
	upto som including breaking of clods complete as not	e l			800		F 16	1	1
	specifications. No.KBS 2.1(a)/2.3.5						1	1	1
	(DAY 0 YAY 1							1	
	(P.No.6, I.No.2.3 of PW, P&IWTD S.R 2018 - 19)								
_	Ch: 10 to 425m		1	415.00	0.00	0.55			
_	Ch: 1010 to 1080m		1	66.00	0.00	-100			
-	Ch: 750 to 760m		1	10.00	0.00	2.00	151.47		
-	Ch: 800 to 810m		1	10.00	0.90	2.55	22.95		11
-			1	10.00	0.90	2.55	22.95		
00						- 0	1149.80		
.02	KSRB 4-1.1: Providing and laying in position plain	Cum				Say	1150.00	316.94	36448
- 1	cement concrete of mix 1.2.4 with OPC Company			- 1		- 1			
	220kgs, with 40mm and down size graded granite				- 1				
	metal coarse aggregates @ 0.878Cum and fine	1	1		1				4.7
14	aggregates @ 0.459Cum machine mixed congrete laid								
14	in layers not exceeding 15cm thick well composed to	-				- 1	* *		
11	oundation, including cost of all materials labour	1 1	- 1	- 1	- 1	1.1			
1	of machinery, curing complete as			-	- 1	4			
10	pecifications				- 1		- 1		
1	Specification No. KRS 4.1.4.2			June 194		- 1			
-	P.No.13, I.No.4.1 of PW, P&IWTD S.R 2018 - 19)								200
	Ch: 10 to 425m		1	415.00	0.90	0.15			2
10	Ch: 1010 to 1080m		1	66.00	0.90	0.15	56.03		
1	2h: 750 to 760m		1	10.00	0.90	0.15	8.91		
-	Ch: 800 to 810m		1	10.00		0.15	1.35		
+			-	10.00	0.90	0.15	1.35		
-			-			_	67.64		
9 75	CDD 4.0 i D					Say	68.00	5599.98	380798.
3 K	SRB 4-6.4: Providing and removing centering,	gm				_			
	decering, suluting prophing ofe and and and			- 1		- 1		4	
110	III WORK for vertical surface such as walls at any				1			4	
U.	ickness, including attached pilasters butteres								
IP.	ment clis and string courses cost of all materials			1					
1 CC	bour complete as per specifications	- 1			- 1	- 1	1	1	
100	pecification No.KBS 4.6.2						- 1	1	
CI	No.16 I No.4.31 of PW, P&IWTD SR 2018-19)							1	
	h: 10 to 425m							-	
	rade Beam		1	415.00		1.00			
R	CC Band			415.00		1.80	747.00		
CI	n: 1010 to 1080m		-	410.00		0.30	124.50		
GX	ade Beam		1	66.00		100		1	
	CC Band		1	66.00		1.80	118.80		
	: 750 to 760m		1	00.00		0.30	19.80	1.	
	ade Beam		1	10.00					
RC	CC Band .		1	10.00		1.80	18.00	1	
Ch	: 800 to 810m		T	10.00		0.30	3.00	10	
Gr	ade Beam	_	,	10.00				N	7
	C Band	-	1	10.00		1.80	18.00		
_		1	1	10.00		0.30	3.00		
						0.00	3.00		
							1052.10 1053.00		

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No.	Description of work	Unit	No.	Length inm	Breadth inm	Depth	Quantity	Rate in Rs.	Amount in Rs.
2.04	KSRB 4.2.7: Providing and laying in position reinforced	10	-					ALL AUG.	III ICS.
	cement concrete of design mix M25 with OPC cement @	Cum					1	1 - 1	
	340kgs with 30mm and design this M25 with OPC cement @	9					1		
	340kgs, with 20mm and down size graded granite	9							
	metal coarse aggregates @ 0.70Cum and fine	9	1	1 1		1			
	aggregates @ 0.47Cum, with superplasticiser @ 31ts	,		1	1				
	Conforming to IS: 9103 - 1999 Reaffirmed 2009						1		
	machine mixed, concrete laid in layers not exceeding				1				
	15cm thick, vibrated for all works in Ground Floor						1		
	Level for Roof Slabs, Staircase, Lintels and Beams,		3						
	Retaining Walls Potters Walls W. W.	1 1		1					
	Retaining Walls, Return Walls, Walls (any thickness)						1. 1.		
	including attached pilasters, columns, lintels, pillars,						- 0		
	posts, struts, buttresses, string or lacing courses,				- 4				
	parapets, coping, bed blocks, anchor blocks plain	1					-		
	window cills, fillets etc. including cost of all materials,				1				1
	labour, HOM of machinery, curing, complete but			- 1					1
41.	excluding cost of reinforcement as per specifications.			- 1					1
	Specification No. KBS 4.1, 4.6								
				- 1					1
-	(P.No.14, I.No.4.12 of PW, P&IWTD SR 2018-19)								
	For Grade Beam								
	Ch: 10 to 425m		1	415.00	0.75	0.00	222.12		-
	Ch: 1010 to 1080m		1	66.00	0.75	0.90	280.13	- /4	
	Ch: 750 to 760m	-	1	10.00	0.75	0.90	44.55		
	Ch: 800 to 810m		1	10.00	0.75	0.90	6.75		
-			1	10.00	0.75	0.90	6.75		
-						~	338.18		
\=	Vonn.					Say	339.00	6407.70	2172210.
05	KSRB 5.2-3: Providing and constructing granite / trap /	Cum					-		
,	dasait size stone masonry in foundation with coment		- 1	1		- 1			
12	mortor 1:6, stone hammered dressed in courses not			- 1			- 1	- 1	
1	ess than 20cm high, bond stones at 2m. apart in each		- 1	- 1	1	- 1		- 1	
10	course including cost of materaials, labour, curing	- 1				- 1			
	complete as per specifications.		- 1	- 1		- 1	- 1	- 1	
				- 1					
100	Specifications.			. 1					
- 5	Specification No. KBS 5.1.13.								
(P.No.25, I.No.5.6 of PW P&IWTD SP 2018 100	_							
(Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m		1	415.00	0.00				
	P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m		1	415.00	0.60	1.35	336.15		
	P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m		1	66.00	0.60	1.35	53.46		
	P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m			66.00 10.00	0.60	1.35 1.35	53.46 8.10	2	
	Pecification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m		1	66.00	0.60	1.35	53.46 8.10 8.10		1
	Pecification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m		1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
	Pecification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity		1	66.00 10.00	0.60	1.35 1.35	53.46 8.10 8.10		
G C C C C C C C C C C C C C C C C C C C	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m Ve can Re Use the available SSM Quantity (SRRB - M2200-8: Providing Ween Holes in Brich W	08	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
W M	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity CSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment Wine (08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		*
W W	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing // All / Return Wall with 100mm dia AC Pine	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		*
W W	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing // All / Return Wall with 100mm dia AC Pine	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
W W W W W	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity CSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /n/all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
G K m W ex sl.	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity CSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /n /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per	os.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
G K W ex slo	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
W es slock	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of aterials, labour, HOM complete as per specifications.	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
W es slock	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of aterials, labour, HOM complete as per specifications.	os.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
W ex sledar m M	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity CSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of aterials, labour, HOM complete as per specifications. ORTH Specification No. 2706 & 2200	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
WW existed mm	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity CSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of aterials, labour, HOM complete as per specifications. ORTH Specification No. 2706 & 2200	08.	1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		
WW existed mm	Specification No. KBS 5.1.13. P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m Ch: 1010 to 1080m Ch: 750 to 760m Ch: 800 to 810m We can Re Use the available SSM Quantity SSRRB - M2200-8: Providing Weep Holes in Brick Nasonry / Plain / Reinforced Concrete Abutment, Wing /m /all / Return Wall with 100mm dia AC Pipe, stending through the full width of the structure with ope of 1V:20H towards drawing foce. Complete as per rawing and Technical Specifications including cost of aterials, labour, HOM complete as per specifications.	08.	1 1 1 1	66.00 10.00	0.60	1.35 1.35 1.35	53.46 8.10 8.10 405.81		

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Sl. No.			No.	Length			Quantity		Amount
2.07	KSRB 4.2.7: Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite	0		inm	inm	inm	*	in Rs.	in Rs.
	metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplasticiser @ 31ts								
	Conforming to IS: 9103 - 1999 Reaffirmed - 2008 machine mixed, concrete laid in layers not exceeding					-	2 0		V
	15cm thick, vibrated for all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and Beams, Retaining Walls, Return Walls. Walls (any thickness)								
	including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses		*).						
	parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc. including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6	1 1							
	(P.No.14, I.No.4.12 of PW, P&IWTD SR 2018-19) For RCC Band						71	-	
	Ch: 10 to 425m	-							
	Ch: 1010 to 1080m		1	415.00 66.00	0.60		37.35		
-	Ch: 750 to 760m		1	10.00	0.60		5.94		A STATE OF THE STA
	Ch: 800 to 810m		1	10.00	0.60		0.90		
							45.09		
2.08	KSRB 4.9.2: Providing TMT Steel Reinforcement for	Tonn	-	-		Say	46.00	6407.70	294754.2
	RCC work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500	e							
	(P.No.18, I.No.4.46.2 of PW, P&IWTD SR 2018 - 19) Grade beam @120Kg/Cum		_				- 1		
	RCC Band @40Kg/Cum		+		,		108.22		1
.09	KSRB 5.3-3: Providing and constructing granite / trap / C	22000					6.01 114.23 7	5223.96	8592682.50
1	basalt size stone masonry in basement with cement mortor 1:6, edges of stones chistle dressed in courses not less than 15cm high, bond stones at 2m apart in each course including cost of materaials, labour, curing complete asper specifications.	um						******	
- 2	Specification No. KBS 5.1.13. P.No.25, I.No.5.9 of PW, P&IWTD SR 2018-19)								- 1
(Ch: 10 to 425m	-	1	352.00	0.15				
- 19	Ch: 1010 to 1080m		1	55.20	0.45	1.15	182.16		
	Ch: 750 to 760m		1	10.00	0.45	1.15	28.57 5.18	-	
-	Ch; 800 to 810m		1	10.00	0.45	1.15	5.18		
		_	_				221.08		
		-	+			Say	222.00 5	811.98	1290259.56
10 K	SRB 4-1.6: Providing and laying in position plain Cu	m	_						
2 m ap la fo m	ement concrete of mix 1:2:4 with cement using @ 40kgs, with 20mm and down size graded granite tetal coarse aggregate @ 0.878Cum and fine gregates @ 0.53Cum machine mixed, concrete laid in tyers not exceeding 15cm thick well compacted in fundation, plinth and cills, including cost of all aterials, labour, HOM of machinery, curing emplete as per specifications.							·	
(P	.No.13, I.No 4.6 of PW, P&IWTD SR 2018-19)	-	-			_			
Fo	or Basement Coping Concrete (DPC)		-						
CI	a: 10 to 425m		1 3	52.00	0.45	0.15	23.76		
CI	2: 1010 to 1080m 2: 750 to 760m		_	55.20		0.15	3.73	-	
	1 / DU TO 760m			10.00	0.45		0.10		

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SI. No.	Description of work	Un	it No.	Length	Breadth		Quantity		Amount
	Ch: 800 to 810m		_	1 10.00		inm		in Rs.	in Rs.
	Ch: 750 to 1350m			1 600.00					
				1 000.00	0.45	0.15		-	-
0.11	Mann					Say	70.0		10000
2.11	KSRB 5.4-4: Providing and constructing granite / tra	O/ Cur	n			Day	70.0	0 5747.32	40231
	Dasait size stone masonry in Super Structure wi	th		1			E .	4	
	cement mortor 1:4, edges of stones chistle dressed	in		1	1				1
	courses not less than 15cm high, bond stones at 9	m		1					1
	apart in each course including cost of materia								
	Habour coeffelding	er							
	specifications.	er					li,		
-	Specification No. KBS 5 1 12								
	(P.No.25, I.No.5.13 of PW, P&IWTD SR 2018-19)	_		1				-	
	SSM Column @ Every 4m c/c								
	Ch: 10 to 425m		10	0.60	0.00	0.00			
	Ch: 1010 to 1080m	_	18		0.60	2.30	86.94		
	Ch: 750 to 760m	_		0.00	0.60	2.30	14.90		
	Ch: 800 to 810m	+-	-		0.60	2.30	3.31		
	Ch: 630 to 650	-	+		0.60	2.30	3.31		
	211 900 10 000	-	1	0.60	0.60	2.30	4.97		
		+	-	-			113.44		Leath Committee
.12	KSRB 6-6.3: Providing and constructing Burnt Bric	Cum	+			Sav	114.00	6365.30	725644
- 1	masonry with approved quality of modular bricks	£							
	standard size of class designation 7.5 Newton no			1. [- 1				
	Squim (Machine moulded Wirecut Bricks) with comon	+		1 1	1			- 1	
	mortar 1:4 for basement and super structure including			1 1	1				
	cost of materials, labour charges, scaffolding, curin	5		1 1	- 1	- 1	- 1	8.00	
	complete as per specifications.	3		1			- 1	1	
1	Specification No. KBS 6.2		1			1	1		
1	P No 30 I No C 21 of DW De HUMB CD CALL	-							
1	(P.No.30, I.No 6.21 of PW, P&IWTD SR 2018-19) Ch: 10 to 425m								
	Ch: 1010 to 1080m		1	353.60	0.23	1.00	81.33		
-12	Ch. 750 + 750		1	57.80	0.23	1.00	13.29		
	Ch: 750 to 760m		1	10.20	0.23	1.00	2.35		
-19	Ch: 800 to 810m		- 1	10.20	0.23	1.00	The state of the s		
-10	Ch: 750 to 1350m		1	510.00	0.23	1.00	2.35		
- (Ch: 630 to 650		1	17.00	0.23		117.30		
0	D.23*.1*.075*16 No.*4 rows		282	0.11	0.23	1.00	3.91		
_			202	0.11			-31.13	100	
						~	189.39		
13 K	KSRB 4-1.5: Providing and laying in position plain	Cum				Say	190.00	10901	2071197.6
C	ement concrete mix M20 with OPC cement @ 300kgs				- 1				
I W	vith 20mm and down size graded granite metal coarse			1		-			
a	ggregates @ 0.69Cum and fine aggregates @ 0.43Cum		- 1	1	- 1		1		
n	nachine mixed, concrete laid in lavers not exceeding	1		1					
1	5cm thick, well compacted in foundation, plinth and								
ci	ills, including cost of all materials, labour, HOM of			27	- 14				
m	nachinery, curing complete as per specifications.	1	- 1	- 1				100	
S	pecification No.KBS 4.1, 4.2	1			- 1		2 14 1		
~,	pecification No.RBS 4.1, 4.2		- 1	1	1		100		
Œ	P.No.13, I.No 4.5 of PW, P&IWTD SR 2018-19)	-	_						
A	t Top Coping Above Brick wall	-							
120	Sopring Moove DITCK WHII		1	353.60	0.23	0.10	8.13		
-			1	57.80	0.23	0.10	1.33		
-			1	10.20	0.23	0.10	0.23		
+			1	10.20	0.23	0.10	0.23		
+			1	510.00	0.23	0.10	11.73		
1.5			1	17.00	0.23	0.10	0.39		
Ak	bove SSM Column		105	0.60	0.60	0.10			
			18	0.60	0.60		3.78		
-			4	0.60		0.10	0.65		
		-	4	0.60		0.10	0.14		
			4			0.10	0.14		X
			G			0.10	0.22		
		_	6	0.60	0.60	0.10			
			6	0.60	0.60		26.98		
KS	SRB 15.1-1: Providing flush pointing to square rubble	Sam	6	0.60	0.60	Say	26.98	647.68	52487.36
KS	SRB 15.1-1: Providing flush pointing to square rubble, surse or uncoursed stone masonry with cement mortar	Sqm	6	0.60	0.60		26.98	647.68	52487.30
COL	urse or uncoursed stone masonry with cement mortar	Sqm	6	0.60	0.60		26.98	647.68	52487.36
1:3	urse or uncoursed stone masonry with cement mortar 3, 20mm deep, after raking joints to depth of 20mm	Sqm	6	0.60	0.60		26.98	647.68	152487.36
1:3	urse or uncoursed stone masonry with cement mortar 3, 20mm deep, after raking joints to depth of 20mm cely lining, including cost of materials, labour,	Sqm	6	0.60	0.60		26.98	647.68	52487.36
1:3	urse or uncoursed stone masonry with cement mortar 3, 20mm deep, after raking joints to depth of 20mm	Sqm	6	0.50	0.60		26.98	647.68	52487.36
1:3 nic	urse or uncoursed stone masonry with cement mortar 3, 20mm deep, after raking joints to depth of 20mm cely lining, including cost of materials, labour, ring complete as per specifications.	Sqm	6	0.50	0.60		26.98	647.68	152487.36
1:3 nic cur	urse or uncoursed stone masonry with cement mortar 3, 20mm deep, after raking joints to depth of 20mm cely lining, including cost of materials, labour,	Sqm		353.60			26.98	647.68	52487.36

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No.	The state of the s	Uni	t No.	Length	Breadth	Depth	Quantity	Rate	Amou
				in m	in m	in m		in Rs.	in Rs.
100	For Super structure	_	2	- 1100		1.15	132.94		1
		_	210	0.00					
-		_	36	2.00		P	49.68		
-			8		**	2.00	11.04		
			12	0.60		2.30	11.04		
						2.30	16.56 1324.34		
0.15	WORD .					Say	1325.00	149.46	100
2.15	KSRB 2.4: Refilling available earth around pipel cables in layers not exceeding 20cms depth, compact each deposited layers by ramming after watering whead upto 50m.and lift upto 1.5mtrs including cost of labour complete as per specifications.	ing		. ,		Suy	1020.00	149.46	198
	(P.No.7, I.No.2 11 of PW, P&IWTD SR 2018-19)								
	For foundation								
10	VODDD		1				291.00	1	
.16	KSRRB M100-4.1: Cost of Haulage excludi	ng Cum				Say	291.00	128.26	378
	(Lead upto 19Km) for Earth(Excavated Soil)	0/1		7		1			
-	(P. No. 136, I.No. 17.4 of PW, P & IWTD SR 2018-19)				-	-			5161
-									
-	Direct D					-	856.71		,
17	Plinth Beam (Storm Water Drain) KSRB 2-2.1: Earthwork excavation by manual mean					Say	857.00	48.64	416
o n b e u	for foundation of buildings, culverts, water supply an emitary lines and electrical conduits, etc.either in pix or in trenches 1.5m and above in width, in ordinary so not exceeding 1.5m in depth including dressing the motion and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead pto 50m including breaking of clods complete as perpendications.	ts il e e							
(I	SRB 4-6.1: Providing and removing centering auttering, strutting, propping etc., and removal of remover for foundations, footings, bases of columns remass concrete including cost of all materials.	Sqm	10	1.60	1.40	2.00 Say	44.80 45.00	316.94	1426
(I B K sh fo for co 4.6	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removed.	Sqm				Say	45.00	316.94	1426
(I) S K Sh for co 4.6	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering auttering, strutting, propping etc., and removal of remove for foundations, footings, bases of columns remass concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 3.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19)	Sqm	10	6.00		Say	45.00 §		
KS shi pill pla	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of remove for foundations, footings, bases of columns remains concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 6.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in including cost of all materials, labour complete as a specifications. Specification No.KBS 4-6.2	Sqm				Say	45.00 §	73.48	7383
(I) (I) (I) (I) (I) (I) (I) (I)	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of remover for foundations, footings, bases of columns remains concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 6.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in an including cost of all materials, labour complete and including cost of all materials.	Sqm	10	6.00		Say	45.00 §		
KS shipill pla	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of remove for foundations, footings, bases of columns remains concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 6.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in including cost of all materials, labour complete as specifications. Specification No.KBS 4.6.2 No.16, I.No.4.32 of PW, P&IWTD SR 2018-19)	Sqm	10			Say	27.00 27.00 27.00		
KSS For tool 2.1(P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of rm work for foundations, footings, bases of columns mass concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 3.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in including cost of all materials, labour complete as especifications. Specification No.KBS 4.6.2 No.16, I.No.4.32 of PW, P&IWTD SR 2018-19) RB 2.2.7: Benching Hard Rock 5 to 7.5cm depth. seating of foundation, including cost of all labours, s etc., complete as per specifications. No.KBS a)/2.3.1	Sqm	10	6.00		0.45 Say	27.00 27.00 27.00 29.10	73.48	7383
KSS For tool 2.1(P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of rm work for foundations, footings, bases of columns rmass concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 3.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in in including cost of all materials, labour complete as especifications. Specification No.KBS 4.6.2 No.16, I.No.4.32 of PW, P&IWTD SR 2018-19) RB 2.2.7: Benching Hard Rock 5 to 7.5cm depth. seating of foundation, including cost of all labours, is etc., complete as per specifications.	Sqm	10	6.00		0.45 Say	27.00 27.00 27.00 29.10	73.48	
KSS For tool 2.1(P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19) SRB 4-6.1: Providing and removing centering nuttering, strutting, propping etc., and removal of rm work for foundations, footings, bases of columns mass concrete including cost of all materials, labour mplete as per specifications. Specification No.KBS 3.2 No.16, I.No.4.28 of PW, P&IWTD SR 2018-19) SRB 4-6.5: Providing and removing centering, uttering, strutting, propping etc., for columns, lars, post and struts, square/rectangular/polygon in including cost of all materials, labour complete as especifications. Specification No.KBS 4.6.2 No.16, I.No.4.32 of PW, P&IWTD SR 2018-19) RB 2.2.7: Benching Hard Rock 5 to 7.5cm depth. seating of foundation, including cost of all labours, s etc., complete as per specifications. No.KBS a)/2.3.1	Sqm	10	6.00		0.45 Say	27.00 27.00 27.00 29.10	73.48	7383

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SI.	Description of work	Unit	IN-	Transact.	In .	T=			
No.	1	100000000000000000000000000000000000000	No.	in m	Breadth		Quantit	y Rate	Amount
2.21	KSRB 4-1.1: Providing and laying in position plain	Cum	-	in m	in m	in m		in Rs.	in Rs.
	cement concrete of mix 1.2.4 with ODC C				1				
	240kgs, with 40mm and down size guaded	1	1		1			1 3 1	13 0
	include Coarse aggregates @ 0.0700	1				1 .			
	aggregates @ 0.459Cum machine mixed, concrete laid				1	1	1	1	
	in layers not exceeding 15cm thick, well compacted, in				1				
	foundation, including cost of all materials. labour,		6 u						1
	HOM of machinery, curing complete as per specifications.		1					4 4	
5-13				i i				1 3 1	
	Specification No. KBS 4.1, 4.2		-						
	(P.No.13, I.No.4.1 of PW, P&IWTD SR 2018-19)								
			10	1.60	1.40	0.60	13.4	4	
22	Anchor Bolt Chemical					Say		0 5599.98	70000
	(Market Rate)	Liter		Area			14.0	0 0099.98	78399
			120	314.20		300.00	11.3		
23	KSRB 4.9.2: Providing T.M.T steel reinforcement for	-				Say	11.31		50100
	work including straightening cutting bonding	ionn				-	X 1.0	0700.00	76463.
1.	placing in position, lanning and / on	2	1						
	required, tying with hinding				1				
1.	including to the adjoining memobre wherever	- 1		- 1				1 1	
10	omplete as per design (lane, hooks and	- 1						1 1	
	tot bemeasured and paid) cost of motorials 1-1		- 1	- 1	- 1				
1	1011 of machinery complete as nor specification	- 1	- 1		- 1				
1~	Peditication No. NDS 4.6.3	- 1	- 1		1	- 1			
1	FMT bars Fe 500		- 1		1	- 1			
10	D.N. 10 TAX	- 1			- 1				
- 10	P.No.18, I.No.4.46.2 of PW, P&IWTD SR 2018 - 19)	7							Mark to the
				Area					
			120	0.0002		0.60	0.11	-	
4 K	SRB 4.2.1 : Providing and laying in position Co		_			Say		75223.96	8549.5
11070	Content Content of decide min Mas Opol	am	- 1						0049.0
100	ment & 540kgs, With 20mm and down sine	- 1			- 1	- 1		- 1	
10.	diffic metal coarse aggregates @ 0.70Cvm							1.	
146	Gregates @ 0.4/Cum with superplanticing of ou		- 1				1		
00.	11111111111111111111111111111111111111	-	1			- 1			
1 ****	concrete laid in layers not averal:		1		- 1	- 1	1	. 1	
thi	ick, vibrated for all works in foundation for footings,	- 1			-	1	1		
120	dastais, retaining walls weturn	1			- 1		1		
thi	dastals, retaining walls, return walls (any ckness) including attached pilasters, columns,		1	- 1	- 1	- 1			
pil	lars, posts. struts, bed blocks, anchor blocks and		- 1		- 1				
1 Y Y Y	nth etc., including cost of all materials		1			1	1		
1	" VI machinery curing committee				- 1-	4			
spe	ecifications. Specification No. KBS 4.1, 4.6				1			-	
_									
12.1	No.14, I.No.4.10 of PW, P&IWTD SR 2018-19)	1	0	1.60	1.40	0.45	10.00	-	
		1	.0	0.75	0.0-	4.05	10.08		
		_					20.71		
KSI	RB 4-6.4: Providing and removing centering, Sqm	-	-			Say .	21.00 6	160.72	29375.12
~***	ottomis, Strutting propping oto and						-	-30.12	233 15.12
10111	work for vertical surface such as walle of and				. 1	. 1			
CILLO	kness, including attached pilasters buttered	1							
Pun	in and string courses cost of all materials laborated								
Com	piete as per specifications Specification N. repol		1						
4.0.2						1 1 20	1		1
(P.N	o.16 I.No.4.31 of PW, P&IWTD SR 2018-19)	-	-	-					
Orac	te Death	1	11	0.00	-	00		1 -	
CCC	Band	1		0.00		.90	36.00		
-		1	70		0	.30	12.00		
							48.00		

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SI. No.	Description of work	I DOMESTA	No.	Length	Breadth		Quantity	Rate	Amount
2.26	KSRB 4.2.7: Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed. concrete laid in layers not exceeding 15 cms thick, vibrated for all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and Beams, retaining walls, return walls, Walls (any thickness)	,	1	inm	inm	inm		in Rs.	in Rs.
	strutang attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, Parapets, Coping, bed blocks, anchor blocks, Plain Window Cills, Fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.12 of PW, P&IWTD SR 2018-19)								2 2 4 h
	For Grade Beam		1	40.00	0.75	0/15			
2.27	MCDD TOO D			40.00	0.75	0.45 Say	13.50		
2.21	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation with cement mortor 1:6, stone hammered dressed in courses not less than 20cms high hand stones at 20cms	Cum				Say	14.00	6407.70	89707.8
	high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete asper specifications. Specification No. KBS 5.1.13. (P.No.25, I.No.5.6 of PW, P&IWTD SR 2018-19)								
		-							
	Covering Vents	-	8	40.00	0.60	1.35	32.40		
			-0	4.00	0.60	3.00	57.60		
2.28	KSRB 4.2.7 : Providing and laying in position C			-		Say	90.00	:4871.76	438458.40
I I I I I I I I I I I I I I I I I I I	reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplastisiser @ Blts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding to compare the superplastic for all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and Beams, retaining walls, return walls, Walls (any thickness) including attached pilasters, columns, pillars, posts, truts, buttresses, string or lacing courses, Parapets, Coping, bed blocks, anchor blocks, Plain Window Cills, Fillets etc., including cost of all materials, abour, HOM of machinery, curing, complete as per pecifications. Specification No. KBS 4.1, 4.6								
F	P.No.14, I.No.4.12 of PW, P&IWTD SR 2018-19) or RCC Band	-	_						-
20			1	40.00	0.60	0.15	3.60		
he	SRB 4.9.2: Providing T.M.T steel reinforcement for To. C.C work including straightening, cutting, bending, e coking, placing in position, lapping and / or welding herever required, tying with binding wire and	nn				Say .	4.00 6	407.70	25630.80
no He Sp	mchoring to the adjoiningmemebrs wherever necessary implete as per design (laps, hooks and wastage shall be								
P	No.18, I.No.4.46.2 of PW, P&IWTD SR 2018 - 19)	-	-						
10	oting @ 45Kg/Cum	-	-						
Co	lumn @140Kg/Cum	-	+				0.45		
Gr	ade beam @120Kg/Cum			-:-			1.49		
RC	C Band @40Kg/Cum					-:-	0.16		
1		_							

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_	o. 30	Description of work	Unit	No.	Length	h Br	eadth	Depth	Quant		
2.		KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortor 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete asper specifications. Specification No. KBS 5.1.13.						·		in R	s. in Rs.
		(P.No.25, I.No.5.9 of PW, P&IWTD SR 2018-19)								-	
2.3	1	KCDD 410 D 11			34.0	0	0.45	1.15 Say		.60	
2.0	in a second of the second of t	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement using @ 240kgs, with 20mm and down size graded granite metal coarse aggregate @ 0.878Cum and fine aggregates @ 0.53Cum machine mixed, concrete laid in layers not exceeding 15cm thick well compacted in coundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.2 P.No. 13, I.No 4.6 of PW, P&IWTD SR 2018-19)	Cum			-		Say	18.	5811	.98 10461
	F	For Basement Coping Concrete (DPC)	-	1	24.00						
29			_	1	34.00	-	0.45	0.15	2.3		
2.32	he de ev with co incite gri	Providing and fixing M.S.Grill over existing compound S vall as per using 16mm x 16mm M.S.Square rod at 50mm c/c spacing and 6mm x 40mm M.S. flats at orizontal and 6mm x12mm M.S. flat for ornamental esign and providing shop edge design at the vertex of very vertical rods, including welding, grinding herever necessary. All the steel surface should be acroughly cleaned free of rust and painted with antipartosive paint (shop paint) etc., complete. The work cludes cost of all materials, labour charges for all ems of work, hire charges for welding, cutting and inding equipment, and electricity charges, etc., mplete as per specification.	ōqm					Say	3.0	5747.8	17241.
_	CP.	No.44, I.No 7.36 of PW, P&IWTD SR 2018-19)	-			_	_	-			
33	KS bas cen cou apa lab	SRB 5.4-4: Providing and constructing granite / trap/ Cusalt size stone masonry in Super Structure with ment mortor 1:4, edges of stones chistle dressed in arses not less than 15cms high, bond stones at 2m. art in each course including cost of materaials, our, Scaffolding, curing complete asper scifications. Specification No. KBS 5.1.13.	ım	2	3.00		4.00		24.00	5691.14	136587.36
+	(P.I	No.25, I.No.5.13 of PW, P&IWTD SR 2018-19) M Column @ Every 4m c/c			_		_	_			
				11	0.60	(0.60	2.40	9.50		
1 0 0	star Sqm mor cost	RB - 6-6.3: Providing and constructing Burnt brick Cursonry with approved Quality of modular bricks of adard size of class designation 7.5 Newton per am (Machine moulded Wirecut bricks) with cement tar 1:4 for basement and super structure including of materials, labour charges, scaffolding, curing plete as per specifications. [50.30, I.No 6.21 of PW, P&IWTD SR 2018-19)	m					Say	10.00	6365.30	63653.00
0	.23	*.1*.075*16 No.*4 rows	-	1	34.00	0.	23 1.	.00	7.82	7	
1			1	U	0.11	_	-	-	-1.10		1 1
30 m ag la fo m co	00k le ta ggre yer und	EB 4-1.5: Providing and laying in position plain cent concrete of mix M20 with OPC cement using a sex, with 20mm and down size graded granite all Course aggregate @ 0.69Cum and Fine egates @ 0.43Cum machine mixed, concrete laid in so not exceeding 15 cms.thick well compacted in dation, plinth and cills, including cost of all rials, labour, HOM of machinery, curing lete as per specifications. Specification No.KBS					S	av	7.00	10901	76307.28

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No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amou
	(P.No.13, I.No 4.5 of PW, P&IWTD SR 2018-19)	+	-	inm	inm	inm		in Rs.	in Rs.
	At Top Coping Above Brick wall	-	-					ALL AUS.	III KS
	Above SSM Column	-	1	34.00	0.20		0.78		-
			11	0.60	0.60	0.10			
2.36	VCDD		-	-			1.18		
2.36	KSRB 15.1-1: Providing flush pointing 20mm deep, t	o Sqm				Say	2.00	5647.68	1
	regard rubble, course or uncoursed stone masses	1			1			1.0	
	cement mortar 1:3, after raking joints to depth of	f			1				
	20mm nicely lining, including cost of materials	5,		1	- 1				
	labour, curing complete as per specifications.	1							
	(P No 115 T No 15 1 - C DIV. DO NO.						1. 1.	. 27	
	(P.No.115, I.No.15.1 of PW, P&IWTD SR 2018-19) For Basement					-	-		-
	For Superstructure		2	33.40		1.35	90.18		
	For SSM Pier		2	33.40		1.15	76.82	-	
			22	0.60		2.40	31.68		-
	· · ·						198.68		
.37	KSRB 2.4: Refilling available earth around pipeline,	0	_			Say	199.00	149.46	297
	cables in layers not exceeding 20cm in depth,	Cum		1				210.10	23
	compacting each deposited layer by ramming after		- 3	- 1		- 1	- 1	F 8 6 6	
	watering with lead upto 50m and lift upto 1.5m			- 1		1	1		
1	including cost of all labour complete as per					- 1			
	specifications.	- 1			1			1	
	(P.No.7, I.No.2 11 of PW, P&IWTD SR 2018-19)		_						
	FOr Ioundation	_							
_	For Pile Foundation						20.92	128.26	26
88	KSRB 2-2.1: Earthwork excavation by manual means	Cum	-						
	to loundation of buildings, culverte water annual	ouiii			1		1 1		
15	samuary lines and electrical conduits etc oither in -it-		- 1		1		. 1		
1	in trenches 1.5m and above in width in ordinamil				42		15		
18	son not exceeding 1.5m in depth including dressing the		- 1			1	7 1		
	solution and sides of pits and trenches etacking the			- 1	1				
16	excavated soil clear from edges of excavation with land	* 1		- 1			13		
1	ipto 50m including breaking of clods complete as non-				1	1.	15		
s	specifications. No.KBS 2.1(a)/2.3.5			1				-	
1	P No 6 I No 9 2 of DW DRIVING CO.						1.3	1	
F	P.No.6, I.No.2.3 of PW, P&IWTD SR 2018-19)								
	ne cap		84	2.50	1.00	1.05	220.50		_
9 K	SRRR - M2100 12: D			A second		Say		210.04	====
	SSRRB - M2100 - 13: Providing and laying Plain / Cainforced Company Company	Cum				Juj	221.00	316.94	7004
0	deinforced Cement Concrete mix 1:2:4 with OPC								
0	ement @240kgs, with 40mm and down size graded					- 1			
10.	diffice metal coarse aggregates (a) (184Cum and E		.	- 1	1	- 1		- 1	
Co	ggregates @ 0.56Cum in Open Foundation including				- 1				
w	ost of all materials, labour, HOM, curing, form								
sr	orks, scaffolding and centering complete as per pecifications complete as per Drawing and Technical	1 -			1				
Si	pecifications			1	1		1		
M	ORTH Specification No. 1500, 1700 & 2100			1	1				
P	P. No. 222, I.No. 27.24 of PW, P & IWTD S.R 2018 - 19)								
Fe	or Pile cap		-						
CI	h: 10 to 425m	_	40	0.50					-
-			42	2.50		0.15	20.48		
K	SRRB - M1200-47: Providing steel liner 10mm thick M	T	-			Say	21.00 54	09.18 1	13592
101	curbs and 6mm thick for steining of wells including				1				
Ia I	oricating and setting out as per detailed drawing		1		- 1	1	- 1	1	
CO	mplete as per specifications including cost of all			1	1				
ms	aterials, labour, HOM, form works, scaffolding and								
cer	ntering complete as per specifications.				1		1		
M	ORTH Specifications No.1200 & 1900			1					
-									
	z.No. 217, I.No. 26.125 of PW, P & IWTD S.R 2018 - 19)					_		_	
(P€			7						
Ca	sing for Piles			Lancia de la companya					
Ca	sing for Piles 42*0.5*0.006*7.85 = 0.074	8	34	5.00	0.074		31.07		

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Sl. No.	Description of work		No.			Depth	Quantity	Rate	Amount
2.41	500mm dia. Piles with cement design mix M35 @390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69Cum and fine aggregates @ 0.45Cum, with superplasticiser @ 3lts conforming to IS - 9103 - 1999 Reaffirmed - 2008, excluding Reinforcement as per Drawing, including cost of all materials, labour, HOM complete as per specifications. MORTH Specifications No.1100 -do-m35, 500mm dia piles 390 kg Cement, C.A. 0.69Cum, F.A 0.45Cum			inm	inm	inm		in Rs.	in Rs.
	(Pg.No. 197, I.No. 25.2.2 of PW, P & IWTD S.R 2018 - 1	9)							
2.42	KSRRB - M1100-11.2: Cement Concrete for Reinforced Concrete in Pile Cap as per Drawing and Technical Specification complete as per specifications. RCC with OPC design mix M35 @ 390kgs, with 20mm down size graded granite metal coarse aggregates @ 0.68Cum and fine aggregates @ 0.45Cum, with superplasticiser @ 3lts conforming to IS9103-1999 Reaffirmed - 2008. Case - II: Using Batching Plant, Transitmixer and Concrete Pump. Including costs of all materials labour, HOM, form works, scaffolding & centering		84		-	8.00	672.00	8230.9	5531164.
	MORTH Specification No. 1100, 1500 & 1700. (Pg.No. 200, I.No. 25.25 of PW, P & IWTD S.R 2018 - 19) For Pile cap								
	P1	-	42	0.70					
			42	2.50	1.00	0.90	94.50	to and	
i	KSRRB - M2300 - 14: Providing TMT Steel T Reinforcement for R.C.C. Work including straightening, e cutting, bending, hooking, placing in position, lapping and / or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) including cost of materials, labour, HOM complete as per specifications.	onn		14.		Say	95.00	5544.86	526761.70
1	MORTH Specifications No.1600 and 2200 TMT Bars Fe								
1	P.No.239, I.No.29.29.2 of PW, P&IWTD SR 2018 - 19)						1		
6	Considering 135kg/Cum for Item No. 41 672*3.142*0.5*0.5/4 = 131.96*0.135								-
6	Considering 135kg/Cum for Pile Cap						17.81		
	TOORE COM IN I HE CAP						12.83		
1						C- :	30.64		
		_	_			Say	31.00 73	3992.24	2293759.44

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S1. No. 3.00	Description of work		No.	Length			Quantity		Amoun
3.01	The storm water Ducks (Fibes for Storm water D	rain, F	ower	Cables	nd OFC)	nd Casa	- D	in Rs.	in Rs.
3.01	types of soil by mechanical means including cutting an loading to tippers, trimming bottom and side slopes, i accordance with requirements of lines, grades and crossections, and transportation with a lead of 1km an complete as per specifications. MORTH Specification No. 301	d n				tha Cros	s Ducts		. 1.
	(P.No.142, I.No.19.14 of PW, P&IWTD S.R 2018 · 19) Eastern Side (Palace Side)					-			
	For Storm Water Drain (900mm)						-	-	
	For Utility Ducts		1	1475.00	. 1.20	1.20	2124.00		-
	Western Side		1	1475.00	0.70	0.95	980.88		
	For Storm Water Drain (1200mm)		- 1	1 /57 00					
	For Utility Ducts		1	1475.00	1.80		3982.50		
	For Catch Drain on both sides (For every 30m interval)		1	1475.00	0.70		980.88		1-
	4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4		99	1.00	1.00	0.65	64.35		
	For Storm Water Drain Chamber on Western side (For		148	1.80					14
1	every 10m interval) (900mm dia)	1	140	1.00	0.60	1.00	. 159.30		
	For Storm Water Drain Chamber on Eastern side (For		148	2.10	0.30	0.00			
-	every 10m interval) (1200mm dia)		- 10	2.10	0.30	0.90	83.63		
	Inspection Chamber for OFC lines (40m interval) on		37	1.50	0.80	0.00			
-	both sides (tom interval) on		-	1.00	0.00	0.80	35.40		
_			37	1.50	0.80	0.80	25.40		
	Inspection Chamber for Power line (40m interval) on		37	2.50	0.80		35.40		
	both sides		0,	2.00	0.80	1.10	81.13	1	
		1	37	2.50	0.80	1.10	81.13		-
							8608.58		
02]	KSRRB - M2100 - 13: Providing and laying Plain /		_			Say	8609.00	43.46	374147
1-	Cement Concrete mix 1.2.4 with ODO	Cum							3,111
a c	granite metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per-								
a c v s S	aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications						2447		
s S M	grante metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical epecifications 10RTH Specification No. 1500, 1700 & 2100 12.No.222, I.No.27.24 of PW. P&IWTD S R 2018 - 10						-		T -F
s S M	ggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications ORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) ccess Chamber for SWD (10m interval) (900mm dia)		148	1.90	1.00		41		1
s S M (I A	ggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) ccess Chamber for SWD (10m interval) (900mm dia) ccess Chamber for SWD (10m interval) (1200mm dia)	_	148 148	1.80 2.10	1.80 2.10	0.10 0.10	47.79 65.05		
s S S A A A A	ggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications ORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) ccess Chamber for SWD (10m interval) (900mm dia)	_	_						
S S M (I	garage aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications 10RTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) 10ccess Chamber for SWD (10m interval) (900mm dia) 10ccess Chamber for SWD (10m interval) (1200mm dia) 10ccess Chamber for SWD (10m interval) (1200mm dia)	_	148	2.10	2.10	0.10	65.05 8.30		
s S S S S S S S S S S S S S S S S S S S	ggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Access Chamber for SWD (10m interval) (900mm dia) Coccess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides	_	37	2.10	2.10	0.10 0.10 0.10	8.30 8.30		
s s s s s s s s s s s s s s s s s s s	garage aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides		37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10	65.05 8.30		
s s s s s s s s s s s s s s s s s s s	garage aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10	8.30 8.30 13.83		
s s s s s s s s s s s s s s s s s s s	ggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Access Chamber for SWD (10m interval) (900mm dia) Coccess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides		37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10	8.30 8.30 13.83		
s s s s s s s s s s s s s s s s s s s	garage aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90		
s S S M (I) A A Irr bo	gregates @ 0.56Cum in Open Foundation including languages of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications 10RTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) 10ccess Chamber for SWD (10m interval) (900mm dia) 10ccess Chamber for SWD (10m interval) (1200mm dia) 10ccess Chamber for Power line (40m interval) on oth sides 10cs Spection Chamber for Power line (40m interval) on oth sides 10cs Catch Drain on both sides (For every 30m interval)		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		
ss SS M (I) A A Irr bo	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) ccess Chamber for SWD (10m interval) (900mm dia) ccess Chamber for SWD (10m interval) (1200mm dia) aspection Chamber for OFC lines (40m interval) on oth sides aspection Chamber for Power line (40m interval) on oth sides aspection Chamber for Power line (40m interval) on oth sides aspection Chamber for Power line (40m interval) on oth sides		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99	409.18	903333.0
ss SS M (I) A A Irr boo Fc	gregates @ 0.56Cum in Open Foundation including languages of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval)		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.0
ss SS M (I) A A Irr boo Fc	gregates @ 0.56Cum in Open Foundation including lagregates @ 0.56Cum in Open Foundation including lost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) ERRB - M2100 - 16.2: Providing and laying Plain / Curinforced Cement Concretem25 with OPC @ 340 kgs, th 40mm and down size graded granite metal coarse.		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.00
ss SS M (I) A A Ir boo Fc KS Ree wii agg	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) ERRB - M2100 - 16.2: Providing and laying Plain / Curinforced Cement Concretem25 with OPC @ 340 kgs, th 40mm and down size graded granite metal coarse gregates @ 0.70Cum and fine aggregates @ 0.70Cum		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.00
SS	gregates @ 0.56Cum in Open Foundation including lagregates @ 0.56Cum in Open Foundation including lost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) ERRB - M2100 - 16.2: Providing and laying Plain / Curinforced Cement Concretem25 with OPC @ 340 kgs, th 40mm and down size graded granite metal coarse gregates @ 0.70Cum and fine aggregates @0.47Cum, th superplasticizer @3lts Conforming to IS - 9103.		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.00
SS	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Cocess Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on ot		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.00
SS	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Cocess Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for OFC lines (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for SWD (10m interval) (1200mm dia)		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.06
SS	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Cocess Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for OFC lines (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cor Catch Drain on both sides (For every 30m interval) Cocess Chamber for Power line (40m interval) on oth sides Cocess Chamber for Power line (40m interval) on oth		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.0
SS SS AM CO SS SC AM CO (P.1	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Cocess Chamber for OFC lines (40m interval) on oth sides Espection Chamber for Power line (40m interval) on oth sides Corest Chamber for Power line (40m interv		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.0
SS SS AM CO In book SS Rewind agg with 196 as scan M CO (P.1) According to the control of the co	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Cocess Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Compared to the sides of the sides of the sides Compared to the sides of the si		37 37 37 37 37	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.06
SS	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Access Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) Aspection Chamber for Po		37 37 37 37 37 99	2.10 1.50 2.50 2.50 1.00	2.10 1.50 1.50 1.50 1.00	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99 167.00 5		903333.06
In book of the second of the s	gregates @ 0.56Cum in Open Foundation including ost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per pecifications complete as per Drawing and Technical specifications MORTH Specification No. 1500, 1700 & 2100 P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) Access Chamber for SWD (10m interval) (900mm dia) Cocess Chamber for SWD (10m interval) (1200mm dia) Aspection Chamber for OFC lines (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) on oth sides Aspection Chamber for Power line (40m interval) Aspection Chamber for Po	am.	37 37 37 37 39 99	2.10 1.50 1.50 2.50	2.10 1.50 1.50 1.50 1.00	0.10 0.10 0.10 0.10 0.10 0.10	8.30 8.30 13.83 13.83 9.90 166.99		903333.06

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Raft		Unit	No.		Breadth	Depth	Quantit	y Rate	Amo
Wall			140	in m	in m	in m		in Rs.	
wan			148	7.00	2.00	0.15	79.		in Rs
Inen	ection Chambar a	_	148	7.60	0.15	2.05	344.		
both	ection Chamber for OFC lines (40m interval) o	on	-						_
Raft	sides								-
Wall		-	97	1.00					
	ation Cl. 1 a		37	1.30	1.30	0.15	9.3	5	
Raft	ction Chamber for OFC lines (40m interval)		37	5.20	0.15	1.50	43.1		-
Wall		-	0.5					-	-
Inene	Mine OI 1		37	1.30	1.30	0.15	9.3	5	_
both s	ction Chamber for Power line (40m interval) or ides	n	37	5.20	0.15	1.50	43.1		-
Raft	ides		- 1					-	_
Wall		1	37	0.00					1
Inspec	tion Chambar a T		37	2.30	1.30	0.15	16.54		_
Raft	tion Chamber for Power line (40m interval)		31	7.20	0.15	1.70	67.70		-
Wall	447						01,10		-
For Co	41 D	-	37	2.30	1.30	0.15	16.54		-
For Ca	tch Drain on both sides (For every 30m interval)	-	37	7.20	0.15	1.70	67.70		
							67.70		
Raft									
Wall			99	0.80	0.80	0.15	0.74		
			99	3.2	0.15		9.50		
					0.10	0.40	19.01		**
4 KSRRB	- M2200-6: Providing TMT Steel Reinforcement					0	1045.16		
for RC	C Work including straightening, cutting,	Tonne				Say	1045.50	5294.70	55356
bandina	booking place straightening, cutting,		- 1	- 1	1				- 00000
		- 1		- 1	1	- 1	- 1		
		- 1		- 1	1	1			
and an	choring to the adiaining wire	1			1	- 1	- 1		
necessar	choring to the adjoiningmembers wherever	- 1	- 1	- 1		- 1		- 1	
wastage	y complete as per design (laps, hooks and	1	1 -	1		- 1			
material	shall not bemeasured and paid) cost of			1	1		1		
			100		1		1		
TMT Ban				1			- 1		
TIVII Dai		- 1				1	- 1	200	
	s re 500	- 1			1		1	1	
			-						
(P.No.22	9, I.No.28.8.2 of PW. P&IWTD S.P. 2010 100								
(P.No.22	0, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19)								
(P.No.22	0, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19)		1						
(P.No.229 Consider KSRRB	0, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4 1: Cost of W	um	<u> </u>				62.73 72	2326.98	453707
(P.No.222 Consider KSRRB loading	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Co	um					62.73 72	2326.98	453707
(P.No.229 Consider KSRRB loading (Lead upt	60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1	um					62.73 72	2326.98	453707
(P.No.229 Consider KSRRB loading (Lead upt	60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1	um					62.73 72	2326.98	453707
(P.No.222 Consider KSRRB loading (Lead upt	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Co	um					62.73 72	2326.98	453707
(P.No.222 Consider KSRRB loading (Lead upt	60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1	um						2326.98	453707
(P.No.229 Consider KSRRB loading (Lead upt (P. No.136	60kg per Cum M100-4.1: Cost of Haulage excluding Cand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) S.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19)					30		2326.98	453707
(P.No.229 Consider KSRRB loading (Lead upt (P. No.136	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) G.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) G.Refilling evaluable and the second				S	30 30 30 30 30 30 30 30 30 30 30 30 30 3	090.25		
(P.No.229 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) G.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) : Refilling available earth around pipeline, Cu				S	30 30 30 30 30 30 30 30 30 30 30 30 30 3			
(P.No.229 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Cuand unloading MORTH Chapter - 100/1 19km) for Earth(Excavated Soil) 1.No. 17.4 of PW, P&IWTD S.R 2018 - 19) Refilling available earth around pipeline, Cuayers not exceeding 20cm in depth,				S	30 30 30	090.25		
(P.No.229 Consider KSRRB loading (Lead upt CP. No.136 KSRB 2.4 cables in compacting watering	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 10 19Km) for Earth(Excavated Soil) 6 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 11 Refilling available earth around pipeline, Cually layers not exceeding 20cm in depth, and a compared to the compared t				S	30 ay 30	090.25		
(P.No.229 Consider KSRRB loading (Lead upt CP. No.136 KSRB 2.4 cables in compacting watering	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 10 19Km) for Earth(Excavated Soil) 6 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 11 Refilling available earth around pipeline, Cually layers not exceeding 20cm in depth, and a compared to the compared t				S	30 Say 30	090.25		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 10 19Km) for Earth(Excavated Soil) 6 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 11 Refilling available earth around pipeline, layers not exceeding 20cm in depth, are each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all laboures.				S	30 Say 30	090.25		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specification	60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) Refilling available earth around pipeline, layers not exceeding 20cm in depth, a each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns.				S	30 Say 30	090.25		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specification	60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) Refilling available earth around pipeline, layers not exceeding 20cm in depth, a each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns.				S	30 30 30 30 30 30 30 30 30 30 30 30 30 3	090.25		
(P.No.22: Consider KSRRB loading (Lead upt (P. No.136) KSRB 2.4 cables in compactin watering including specificatio (P.No.7, I.)	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Coand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 6 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12: Refilling available earth around pipeline, layers not exceeding 20cm in depth, are each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19)				S	30 30 30 30 30 30 30 30 30 30 30 30 30 3	090.25		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compacting watering including specification (P.No.7, I.)	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) G.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) : Refilling available earth around pipeline, layers not exceeding 20cm in depth, greach deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19)				S	30 30 30 30 30 30 30 30 30 30 30 30 30 3	090.25		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compacting watering including specification (P.No.7, L.)	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) G.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) : Refilling available earth around pipeline, layers not exceeding 20cm in depth, greach deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19)					30 30 30 30 30 30 30 30 30 30 30 30 30 3	090.25		453707 150346
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L.	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 o 19Km) for Earth(Excavated Soil) G.I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) : Refilling available earth around pipeline, layers not exceeding 20cm in depth, greach deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19)	m			1475	ay 30	090.25 091.00		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Colored and unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and Current	m	0.0	03 1		166	090.25 091.00		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m		03 1	475	166 18	090.25 091.00 68.40 65.38		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m	0.0	03 1	1475	166 18	090.25 091.00		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m	0.0	03 1	475 475 475	166 18	090.25 091.00 38.40 65.38 66.31		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specification (P.No.7, L.	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m 1 4 6	0.0	03 1	475 475 475 475	166 18 5	090.25 091.00 68.40 65.38 66.31 8.48		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m 1 4 6 6 1 1 4 1	0.6 0.0	03 1 01 1 64 1 3 1	1475 475 475 475 475	166 18 5	090.25 091.00 38.40 65.38 66.31		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m 1 4 6 6 1 1	0.0	03 1 01 1 64 1 3 1	475 475 475 475	166 18 5 93	090.25 091.00 68.40 65.38 66.31 8.48		
(P.No.222 Consider KSRRB loading (Lead upt (P. No.136 KSRB 2.4 cables in compactin watering including specificatio (P.No.7, L. Eastern sid Deduction of	O, I.No.28.8.2 of PW, P&IWTD S.R 2018 - 19) 60kg per Cum M100-4.1: Cost of Haulage excluding Compand unloading MORTH Chapter - 100/1 of 19km) for Earth(Excavated Soil) 61.No. 17.4 of PW, P&IWTD S.R 2018 - 19) 12. Refilling available earth around pipeline, layers not exceeding 20cm in depth, as each deposited layer by ramming after with lead upto 50m and lift upto 1.5m cost of all labour complete as per ns. No.2.11 of PW, P&IWTD SR 2018 - 19) 13. Refilling available earth around pipeline, Current and	m 1 4 6 6 1 1 4 1	0.6 0.0	03 1 01 1 64 1 3 1	1475 475 475 475 475	166 18 5 93	090.25 091.00 68.40 65.38 66.31 8.48 5.38 6.31		

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SI. No.	Description of work		nit 1	No.	Length in m	Breadth in m	Depth in m	Quanti		Amount
3.07	Providing and fixing RCC Precast slab of 100mm this for drain in cement concretem 20 using graded grant jelly 20mm and down size with steel reinforcement including form work, lift charges, curing and concretinished surfaces on both sides etc, complete and as puthe directions of Engineer in-charge.	te nt,	m			TH III	m m		in Rs	in Rs.
	BBMP Approved Rate			10-02/	-		-	-	- 1	
-	Access Chamber for SWD (10m interval) (900mm dia) Access Chamber for SWD (10m interval) (1200mm dia)			148	1.60	1.60		3	78	
		1		148	1.90	1.90		5.	32	
	Inspection Chamber for OFC lines (40m interval) oboth sides	n	1	74	1.30	1.30		1:	25	-
	Inspection Chamber for Power line (40m interval) o	n	+	74	2.30	1.30		22		
	both sides	+	-	-						
3.08	Supplying, laying and jointing HDPE Pipes of specified	,					Say	· 1255.2	0 1724.0	00 2164482
i i i i i i i i i i i i i i i i i i i	grade and conforming to IS: 4984 - 1995 with lates amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15cm, with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his lown arrangements for procuring water for testing) etc. or: PE - 100 PN 6.0 P.No.125, BWSSB SR 2017-18, I.No. 6.1 - K060A, 6.7 Of*90mm dia for OFC / Telecom / Surveillance	t no soul s	00G, 6	6 2	74.00			17700.00 -74.00 17626.00		
ii) 4*200mm dia for Power Cables		-	4 2	950.00				256.25	4516662.5
T	eductions of Chamber Portion			1	74.00			11800.00 -74.00		
ii	i) 2*200mm dia for Power Cables (Toilets - UGD.							11726.00	1016.07	11914453.
E	lectrical)			2	35.00			70.00	1016.07	71125.0
IV.) 1*160mm dia for Street Light Cables			1 2	950.00			2950.00		
ID	eductions of Chamber Portion			1	37.00			-37.00		
fix al sp 23	roviding and laying reinforced cement concrete to the NP3 for culverts including pointing ends, and cing collars with cement mortar 1:2 including cost of a materials, labour, curing complete as per ecifications. Specifications. No. KSRB 1000, 100mOST Specification No.1000/2300							2913.00	670.54	1953270.5
SV	.No.254, I.No.34.6.6 and 34.6.3 of PW & IWTD SR 2018 VD 900mm dia pipe	- 19)		1	mr. co.					
De	eductions of Chamber Portion				75.00 92.40			1475.00		
CU	VD 1900				02.10			-192.40 1282.60	5832.12	7480277.11
De	VD 1200mm dia pipe ductions of Chamber Portion		1		75.00			1475.00	J.J. 12	7400277.1
1	and the state of t	-	1	2.	36.80			-236.80		
30	Omm dia Pipe for Connection at 30m Interval		1524		1.20				8933.68 1626.04	11061682.58
the tra unl	oviding, supplying and fixing MS Surface Stating of size 500mm x 400mm at gully trap along road surface as per approved drawing including apportation to site, all charges of labor, loading and loading etc. complete for fixing as indicated in the twing with all lead and lifts as per detailed tender cifications and as directed by the engineer.	qm						20.00	1020.04	2973701.95
	MP Approved Rate		99		0.80	0.80		63.36	9300.00	589248.00

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SI.	Description of work	Unit	1	Length		h Dept	h Quantity	y Rate	Amour
3.11	Supplying PVC ringtite pipe confirming to IS 4985:2000	Pmt	-	inm	inm	inm	- 1	in Rs.	in Rs.
	The latest amendments and conveying to wentering								
F.	froming and lowering into trenches laying true to line		-						
	and level and perfect linking at joints, testing and	1 1			1				1
	commissioning, including loading and unloading at	1	-				1		1
	both destinations and cuts of pipes wherever necessary	1				1	1	1	
	including jointing of PVC pipes and specials (excluding				1				
	cost of specials) with jointing of approved type, with all						1		
	labour, with all lead & lift including encasing the pipe				1		1		
	alround to a depth of not less than 15cms with soft								
	gravel or selected earth avilable from the excavation						1		1
	etc. complete and giving necessary hydraulic test to the)) 		- 18		1		1
	required pressure as per ISS (Contractor willmake his	1		1.00	1			1	
	own arrangements for procuring water for testing).	- 1			1				
,			- 1					1 .	
	(P.No 133, I.No. 1.1 of BWSSB SR 2017-18 -m010)	_	-						
0	Zomin Outer dia - 10 Kg/Cm2 (Class5) avg 5m longth								
	1.070		36	••			36.00	40.18	144
	Construction of Cross Ducts	-						40.18	144
12	KSRRB - M300 - 14: Excavation for road work in all	-							
	types of soil by mechanical means including cutting and	Jum							
	loading to tippers, trimming bottom and side slopes, in	- 1							
	accordance with requirements of li			- 1				a. 1	
	accordance with requirements of lines, grades and cross		- 1	- 1			- 1		
1.	sections, and transportation with a lead of them and	1							
1	onipiete as per specifications								
1	MORTH Specification No. 301						- 1	9.	
1	P No 142 T No 10 14 April -					1 1			
1	P.No.143, I.No.19.14 of PW, P&IWTD SR 2018 - 19) For Cross Ducts								
1	At 45' Angle								
-	10 40 Angle		1	53.04	0.90	1.00			
			1	49.89	0.90	1.00	47.74		
			1	34.53	0.90	1.00	44.90		
			1	19.05	0.90	1.00	31.08		
+			1	19.50	0.90	1.00	17.15		
+			1	34.67	0.90	1.00	17.55		
			1	23.48	0.90		31.20		-
1					0.30	1.00	21.13		
K	CDDD Moon on a					C	210.74		
177	SRRB - M800-29.1. Providing and laying of a m					Say	211.00	43.46	9170.
120	intoled cement concrete nine duct 200		- 1		- 1	- 1		- 1	
lac	loss the road (new construction) extending for		- 1	- 1	- 1				
l car	and to drain in cuts and toe of slone to too of alan-		- 1	. 1	1			- 1	
1	15, constructing nead walls at both and				0.00	2 2	2	- 1	40.00
an	ninimum fill of granular material over top and sides	- 1	- 1	- 1		- 1	1	1	
of	RCC pine as par IRCos 1007 1			- 1	- 1		1	1	
thi	RCC pipe as per IRC:98-1997, bedded on a 0.3m	1			1			- 1	
CALL	layer of granular material from of male		.		1		1	- 1	
Jou	cer to outer distance of nine at least half die of nine		- 1				1		
1	of double and in case of double and it is					1		1	
1.0.	v ducts, joints to bemade leak proof invest lead						20		
	or to be above higher than ground laws !		1						
	or water and dirt. all as per IRC. 00 1007 1								
1 V. V	arawings complete as nor enceification						1		
Cas	se -II : Double row for two utility services						1		
(P.1	No. 186 I No. 24 25 of DIV. Do Tribes							- 1	
	No.186, I.No.24.35 of PW, P&IWTD 2018 - 19)								-
				53.04			106.08		
				49.89			99.78	-	7
				34.53			69.06		-
				19.05			38.10		
-		1		19.50					
			_	34.67			39.00		1 1
_		2	_	23.48			69.34		
		1	1-	3.10			46.96		F. June
						0	468.32		
Ven						Say	468.50 33	82.46 158	34682.51
KSR	B 2-4:Refilling available earth around pipe lines Cum								
cable	EB 2-4:Refilling available earth around pipe lines, Cumes in layers not exceeding 20cms in death	- 1	1						
cable	es in layers not exceeding 20cms in donth	-							
comp	pacting each deposited layer by ramming after								
comp	pacting each deposited layer by ramming after								
comp wate inclu	pacting each deposited layer by ramming after paring with lead upto 50m.and lift upto 1.5m.							+	
comp wate inclu speci	pacting each deposited layer by ramming after pring with lead upto 50m.and lift upto 1.5m. dding cost of all labour complete as per ifications.								
comp wate inclu speci	pacting each deposited layer by ramming after paring with lead upto 50m.and lift upto 1.5m.								
comp wate inclu speci	pacting each deposited layer by ramming after pring with lead upto 50m.and lift upto 1.5m. dding cost of all labour complete as per ifications.	1		3.04	0.90	0.46	21.96		

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SI.	Description of work	Uni	t No.	Length	Breadth inm	Depth	Quantity	100	Amoun
				1 34.53	The second second second		14.3	in Rs.	in Rs.
,				1 19.05					-
-				1 19.50					
_				34.67	0.90				
-	Deduct Pipe Area				0.90		~ ~ ~ ~ ~		
	Deduct Pipe Area	_		53.04		4	-15.00		
_		_	1 2			4	-14.13		
		-	1 2				-9.76	3	
		-	1 2				-5.39		
Later S			2		7.15		-5.51		
-		_	2		7.00		-9.80		
_				20.40	0.1	4	-6.64 30,73		
.15						Sav	31.00		397
	Construction of granular sub-base Grading-V as Subase and drainage layer by Providing coarse grade crushed stone aggregate of granite / trap basaltmaterial, mixing in amechanicalmix plant a OMC, Carriage of mixed material to work site spreading in uniform layers with motor grader of prepared surface and compacting with vibratory power oller to achieve the 98% proctor density, complete a per Specifications.	ed / at e, n							
_	Clause 401 of MORTH V Revision								
	(P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19)							1	
_	For Cross Ducts		1	53.04	0.90	0.20	9.55		-
1			1	49.89	0.90	0.20			-
			1	34.53	0.90	0.20	8.98		
			1	19.05	0.90	0.20	6.22 3.43		
			1	19.50	0.90	0.20	3.51		
_	Declaration of the Control of the Co		1	34.67	0.90	0.20	6.24		-
_	The second secon		1	23.48	0.90	0.20	4.23		
-						0.20	42.15		
16	KSRRB - M400 - 17: Providing, laying, spreading and					Say	42.50	1994.92	84784
	basalt to Wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406		¥1						V
-	2011								78
-	(P.No.155, I.No.20.18 of PW, P&IWTD SR 2018-19)								
-	For Cross Ducts		1	53.04	0.90	0.25	11.93		
-			1	49.89	0.90	0.25	11.23		-
-	and an area of the second seco		1	34.53	0.90	0.25	7.77		
+			1	19.05	0.90	0.25	4.29		
+			1	19.50	0.90	0.25	4.39		
			1	34.67	0.90	0.25	7.80		
	and the second s		1	23.48	0.90	0.25	5.28		
h h s	KSRRB 500-9: Providing and applying Tack Coat using BO/100 Grade Bitumen (VG10) on granular base such as VBM surfaces hot bitumen primed at 4kg per 10Sqm, neating bitumen in boiler fitted with spray set excluding cleaning of road surface) including cost of all materials, labour, HOM Complete as per pecifications.	Sqm					52.69	2001.28	10572.
1									
0	I. No.21.9, Issue Rate as on 01 - 01 - 19) Or Cross Ducts								
	OI OIOSS DUCIS								
			1	53.04	0.90		47.74		
			-						
			1	49.89	0.90		44.90		
			1	34.53	0.90		31.08		
			1 1	34.53 19.05	0.90				
			1 1 1 1	34.53 19.05 19.50	0.90 0.90 0.90		31.08 17.15 17.55		
			1 1	34.53 19.05	0.90		31.08 17.15	5.	

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SI. No.	Description of work	Unit	No	Lengi in m		Breadth		Quantity		Amount
3.18	bituminous macadam using crushed aggregates of specified grading, pre mixed with VG30 gradibituminous binder and, transporting the hotmix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500 - 10 complete in all respects complete.	f o		III M		in m	in m		in Rs.	in Rs.
	as per specifications. MORTH Specificatin No. 507. Using 120 TPH capacity Asphalt batchmix plant with sensor paver Gr -II (50mm to 75mm) with 4.5 % VG-30									
	(I.No.21.17.2, Issue Rate as on 01.01.2019)				\pm				-	
			-	1 53.0	_	0.90	0.075	3.58		
			_	1 49.8	_	0.90	0.075	3.37 2.33		
				1 .19.0		0.90	0.075	1.29		
		-,-	-	1 19.5	_	0.90	0.075	1.32		
			-	1 34.6	_	0.90	0.075	2.34		
				23.4	0	0.90	0.075	1.58 15.81		111/17
3.19	KSRRB 500-7: Providing and applying tack coat using 80 / 100 grade bitumen (VG 10) on the prepared black topped surfaces at 2.5kg per 10Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision	Sqm		50				15.81	7049.00	111415.0
	(I.No.21.7, Issue Rate as on 01.01.2019) For Cross Ducts		-		+					
			1	53.04	4	0.90		47.74		
			1	49.88	_	0.90		47.74		
_			1	34.53		0.90		31.08	100	
			1	19.05		0.90		17.15		
			1	19.50 34.67	-	0.90	-	17.55 31.20		
			1	23.48		0.90		21.13	-	
.20	Providing and lawing hitarrians and to the state of the s							210.74	12.72	2680.66
*	Providing and laying bituminous concrete 40mm thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hotmix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermo plastics (waste plastic) I.No.21.78.8, Issue Rate as on 01.01.2019)	Cum								20000
-			1	53.04		0.90	0.04	1.91		-
		_	1	49.89		0.90	0.04	1.80		
		-	1	34.53 19.05	_	0.90	0.04	0.69		
-			1	19.50		0.90	0.04	0.69		-
			1	34.67		0.90	0.04	• 1.25		
+		_	1	23.48		0.90	0.04	0.85		
	Construction of Chamber		-					8.43 8	036.92	67749.31
1 It	SRRB - M300 - 14: Excavation for road work in all Coppes of soil by mechanical means including cutting and bading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross ections, and transportation with a lead of 1km and	ım								
I	omplete as per specifications. MORTH Specification No. 301 P.No.143, I.No.19.14 of PW, P&IWTD SR 2018 - 19)						_			

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Sl. No.	Description of work	Unit	No.	Length in m	Breadth in m	Depth	Quantity		Amount
_			14			in m		in Rs.	in Rs.
3.22	VCPPP		1	1.00	1.50	2.00	0012		-
3.22	KSRRB 2100-13 Plain/ Reinforcement cement concret	e Cum		1175		Say	50.50	43.4	16 2194
	graded grinitemetal coarse aggregate @ 0.84 Cum and fine aggregates @ 0.56 Cum in open foundation including cost of all materials, labour, HOM curing form works, scaffolding and centering complete as per drawing and technical specifications mORT&H Specification No.1500, 1700, & 2100	e d n				I			
	(P. No.222 of INo 27.24 PW, P&IWTD S.R 2018 - 19)		- 1	-					1.
	2 - 19)		1.4						
			14	1.50	1.50	0.10	3.15		
.23	KSRRB 2200-5.12. Providing and laying design mix	C		-		Say	3.50	5409.18	18932.
	graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47 Cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008								
	(P.No.227, I.No.28.7.12 of PW, P&IWTD SR 2018 - 19)		-						
	Rait		14	1.50	1.50	0.00		7	
	Side Walls		28	1.50	1.50	0.20	6.30		
			20	6.00	0.20	1.10	37.06		
						Say	43.36		
i s	KSRRB - M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per disign (laps, hooks and wastage shall not bemeasured and paid) cost of naterials, labour, HOM complete as per pecification.MORTH Specification No.1600 & 2200 -do-TMT Bars Fe 500 P.No.229, I.No.28.8.2 of PW, P&IWTD SR 2018 - 19)	Tonne						5640.26	245351.3
_		_	_				4.34		
je ir fi	Providing and fixing RCC Precast slab of 100mm thick Sor drain in cement concretem20 using graded granite ally 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete mished surfaces on both sides etc, complete and as per ne directions of Engineer in-charge.	Sqm .					4.34 7	2326.98	313615.57
B	BMP Approved Rate		_						
F	or Chambers		14	1.50	1.50				
		-	14	1.50	1.50		31.50	17	
							31.54 1	724.00	54374.96
						1 '	Total Amo	unt 5	7448658.16



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Oxth_

)	SI.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
1	14.00	Construction of Factor II B			inm	1				Comments of the Comments of th
,	4 .00	Construction of Footpath; Providing and Fixing Guard Wall	of Ne	w Ker	b Stones	, Bollards	and Ra	ailing and	Construc	tion of Tre
Y	4.01	KSRRB - M300 - 14: Excavation for road work in all								
1	1	types of soil by mechanical means including cutting and	Cum							
	-	loading to tippers, trimming bottom and side slopes, in							T	
)		accordance with requirements of lines, grades and cross								
		sections, and transportation with a lead of 1km and								
)	I	complete as per specifications.								
٩,		MORTH Specification No. 301								
)	1	(P.No.142, I.No.19.14 of PW, P&IWTD S.R 2018 - 19)								
,		Western Side				Avg.				
,		Ch: 100m to 150m		1	50.00	2.32	0.45	52.09		
)		Ch: 150m to 200m		1	25.20	2.25	0.45	25.46		
1	_	Ch: 200m to 250m		1	50.00	1.98	0.45	44.55		
)	-	Ch: 250m to 300m		1	50.00	1.50	0.45	33.75		
4	· —	Ch: 300m to 350m Ch: 350m to 400m		1	50.00	1.40	0.45	31.50		
)		Ch: 400m to 450m		1	50.00	1.40	0.45	31.50		
		Ch: 450m to 500m		1	50.00	3.00	0.45	67.50		-
1	1	Ch: 500m to 550m		1	50.00	3.00	0.45	67.50		
,		Ch: 550m to 600m		1	50.00	2.43	0.45	54.68		
1		Ch: 650m to 700m		1	25.78 50.00	2.07	0.45	24.01		13.20
1	1	Ch: 700m to 750m	-	1	50.00	3.00	0.45	67.50		
	1100000000	Ch: 750m to 800m		1	38.45	3.00	0.45	67.50		
,		Ch: 800m to 850m		1	50.00	3.00	0.45	51.91 67.50		
		Ch: 850m to 900m		1	50.00	3.00	0.45	67.50		
	1	Ch: 900m to 950m		1	50.00	3.00	0.45	67.50	-	
		Ch: 950m to 1000m		1	37.63	3.00	0.45	50.80		
		Ch: 1000m to 1050m		1	50.00	3.00	0.45			
		Ch: 1050m to 1100m		1	50.00	3.00	0.45	67.50		
-8		Ch: 1100m to 1150m		1	50.00	3.00		67.50	-	_
		Ch: 1150m to 1200m		1	50.00	3.00	0.45	67.50		-
		Ch: 1200m to 1250m		1	41.89	3.00	0.45	67.50 56.55		
1	-/ /	Ch: 1250m to 1300m		1	44.10	3.00	0.45	59.54		
-	-	Ch: 1300m to 1350m		1	50.00	3.00	0.45	67.50		-
1		Ch: 1350m to 1400m		1	38.08	3.00	0.45	51.41		
1		Ch: 1400m to 1450m		1	50.00	2.90	0.45	65.25		7
5	-	Ch: 1450m to 1475m	25.00	1	25.00	2.68	0.45	30.09		
ŀ		Eastern Side	-	_	-			1473.08		
3		Ch: 0m to 50m	-	-,	50.00					
1		Ch: 50m to 100m	-	- +	50.00	2.30	0.45	51.75		
1		Ch: 100m to 150m	_	1	50.00	2.50	0.45	56.25		
1		Ch: 150m to 200m	-	1	50.00	3.00 2.20	0.45	67.50		-
1		Ch: 200m to 250m	_	1	50.00	1.60	0.45	49.50		
		Ch: 250m to 300m		1	50.00	3.00	0.45	36.00		
1		Ch: 300m to 350m	-	1	50.00	1.50	0.45	67.50		
V		Ch: 350m to 400m		1	50.00	1.50	0.45	33.75		
1		Ch: 400m to 450m	_	1	50.00	1.50	0.45	33.75 33.75		
Γ	- (Ch: 450m to 500m		1	50.00	1.50	0.45			
1		Ch: 500m to 550m		1	50.00	1.50	0.45	33.75		
		Ch: 550m to 600m		1	50.00	1.50	0.45	33.75		
,	_ (Ch: 600m to 650m		1	50.00	1.50	0.45	33.75		
1	(Ch: 650m to 700m		1	50.00	1.50	0.45	33.75		
1		Ch: 700m to 750m		1	50.00	1.87	0.45	42.08		
P	- 1	Ch: 750m to 800m		1	50.00	1.60	0.45	36.00		
1		Ch: 800m to 850m	_	1	50.00	2.00	0.45	45.00		
1		2h: 850m to 900m 2h: 900m to 950m	_	1	50.00	2.00	0.45	45.00		
-	10	2h: 950m to 950m Ch: 950m to 1000m	-	1	50.00	2.65	0.45	•59.63		
1		Ch: 1000m to 1050m	-	1	50.00	3.00	0.45	56.25		
		Ch: 1050m to 1100m		1	50.00	3.00	0.45	67.50		
		Ch: 1100m to 1150m		1	50.00	2,45	0.45	67.50 55.13		
L	- (h: 1150m to 1200m		1	50.00	1.90	0.45	42.75		
		2h : 1200m to 1250m		1	50.00	3.00	0.45	67.50		
1		Ch: 1250m to 1300m		1	50.00	3.00	0.45	67.50		
Γ		Ch: 1300m to 1350m		1	50.00	3.00	0.45		+	
1		th: 1350m to 1400m	-	_	50.00			67.50	-	
-		h: 1400m to 1450m	-	1		1.40	0.45	31.50	,	
1		h: 1450m to 1475m	-	1	50.00	3.00	0.45	67.50		
_		71. 1400m to 14/9m		1	25.00	1.40	0.45	15.75		

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Sl.	Description of work		it No.	Length	Breadth inm	Depth inm	Quantity	100	Amount
	Inspection Chamber for Street Light Cables (40n interval) on both sides	n	74	1.00	-		53.10	in Rs.	in Rs.
	For Highmast Poles		2	2.20	2.20	1.50	14.52		-
		1 20				1	1500.20		
4.02	KSRRB - M2100 12: Providing a 11 in File	100					2974.00	43.46	129250
	KSRRB - M2100 - 13: Providing and laying Plain Reinforced Cement Concrete mix 1:2:4 with OPC	Cun	1						
	cement @240kgs, with 40mm and down size graded								
	granite metal coarse aggregates @ 0.84Cum and fine								
	aggregates @ 0.56Cum in Open Foundation including	-					•		
	cost of all materials, labour, HOM, curing, form		1						
	works, scaffolding and centering complete as per specifications complete as per Drawing and Technical								
	Specifications			- 1				137	
- 1	MODTH Consideration No. 1500, 1700 & 2100								
-	(P.No.222, I.No.27.24 of PW, P&IWTD S.R 2018 - 19) For Highmast Poles								
	Inspection Chamber for Street Light Cables (40m		2	2.2	2.20	0.10	1.815		
i	uterval) on both sides (40m	14	74	1.00	1.00	0.10	7.38	1	
							9.19	5409.18	49710,
03	KSRRB - M2100 - 16.2: Providing and laying Plain /	Cum						0.100.10	40710,
, ,	Reinforced Cement Concrete M25 with OPC @ 340 kgs,								
la	with 40mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @0.47Cum,		1 1						
v	with superplasticizer @3lts Conforming to IS - 9103 -		1 1		-		1		
1	999 Reaffirmed - 2008 in Open Foundation complete							8	
a	s per Drawing and Technical Specifications including								
, C	ost of all materials, labour, HOM curing, form works,		1 1				. 1	1.	
3	caffolding and centering complete as per specifications.							i.	
N	10RTH specification No.1500, 1700 & 2100								
a	P.No.223, I.No.27.29 of PW, P&IWTD S.R 2018 - 19)		لببا						
	taft		74	0.8	0.00	0.15			
V	Vall			3.2	0.80	0.15	7.08		
				-	0.10	0.41	14.51 21.59	-	
F	or Highmast Poles		2	2	2.00	0.45	3.60		
-			2	0.90	0.90	1.05	1.701		
04 C	onstruction of granular sub-base Grading-V as Sub-						26.90	5294.70	142400.9
ba	ase and drainage layer by Providing coarse graded	oum			1				
cr	ushed stone aggregate of granite / trap /								
ba	asaltmaterial, mixing in amechanicalmix plant at							.	
0	MC, Carriage of mixedmaterial to work site.			11					
sp	reading in uniform layers withmotor grader on	- 1	1	ļ					
pr	repared surface and compacting with vibratory power								v _u
no	eller to achieve the 98% proctor density, complete as								
	Lause 401 of MORTH V Revision								
P	.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19)	-							
	estern Side	-	-						
	a: 100m to 150m	_	1	50.00	2.32	0.20	23.15		1
	a: 150m to 200m		1	25.20	2.25	0.20	11.31		
	a: 200m to 250m		1	50.00	1.98	0.20	19.80		
	a: 250m to 300m		1	50.00	1.50	0.20	15.00		
	a: 300m to 350m		1	50.00	1.40	0.20	14.00		-
1000	a: 350m to 400m a: 400m to 450m	_	1	50.00	1.40	0.20	14.00		
	a: 450m to 500m	-	1	50.00	3.00	0.20	30:00		
	: 500m to 550m	-	1	50.00	3.00	0.20	30.00		
	: 550m to 600m	-	1	25.78	2.43	0.20	24.30		
	: 650m to 700m	_	1	50.00	3.00	0.20	10.67 30.00		
Ch	: 700m to 750m		1	50.00	3.00	0.20	30.00	-	
	: 750m to 800m		1	38.45	3.00	0.20	23.07		
Ch	: 800m to 850m		1	50.00	3.00	0.20	30.00		
	2 850m to 900m		1	50.00	3.00	0.20	30.00		
	= 900m to 950m		1	50.00	3.00	0.20	30.00		
	= 950m to 1000m		1	37.63	3.00	0.20	22.58	-	
	= 1000m to 1050m		1				30.00	2-0-97	-
ICh.	1050m to 1100m		-	FO 00 -	0 - 500	monde at P	A COLOR	THE STATE OF	



SI.	0.	Uni	t No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
-	Ch: 1100m to 1150m		1	50.00	THE RESERVE THE PARTY OF THE PA		30.00		III KS.
	Ch: 1150m to 1200m		1	50.00				_	-
1	Ch: 1200m to 1250m		1	41.89					
_	Ch: 1250m to 1300m		1	. 44.10			-		-
1	Ch: 1300m to 1350m		1	50.00				_	
_	Ch: 1350m to 1400m		1				22.85		
-	Ch: 1400m to 1450m		1	50.00			29.00		
<u> </u>	Ch: 1450m to 1475m		1	25.00	2.68	0.20			
			+	20.00	2.00	0.20	13.38		
	Eastern Side		-						
-10	Ch: 0m to 50m	_	+ -	50.00	0.00	0.00			
7	Ch: 50m to 100m		1	50.00	2.30	0.20	23.00		
	Ch: 100m to 150m	_	1	50.00	2.50	0.20	25.00		
-	Ch: 150m to 200m		1	50.00	3.00	0.20	30.00		
	Ch: 200m to 250m		1	50.00	2.20	0.20	22.00		
	Ch: 250m to 300m	-	1	50.00	1.60	0.20	16.00		
	Ch: 300m to 350m	_	1	50.00	3.00	0.20	30.00		
	Ch: 350m to 400m	_	1	50.00	1.50	0.20	15.00		
1	Ch: 400m to 450m	_	1	50.00	1.50	0.20	15.00		
_	Ch: 450m to 450m		1	50.00	1.50	0.20	15.00		1
-		_	1	50.00	1.50	0.20	15.00		
	Ch: 500m to 550m		1	50.00	1.50	0.20	15.00		
	Ch: 550m to 600m		1	50.00	1.50	0.20	15.00		
_	Ch: 600m to 650m		1	50.00	1.50	0.20	15.00		
_	Ch: 650m to 700m		1	50.00	1.50	0.20	15.00		
	Ch: 700m to 750m	1.	1	50.00	1.87	0.20	18.70		
	Ch: 750m to 800m		1	50.00	1.60				
700	Ch: 800m to 850m	-	1	50.00		0.20	16.00		
	Ch: 850m to 900m	_			2.00	0.20	20.00		
-	Ch: 900m to 950m		1	50.00	2.00	0.20	20.00		
			1	50.00	2.65	0.20	26.50		
_	Ch: 950m to 1000m		1	50.00	2.50	0.20	25.00	4	
-	Ch: 1000m to 1050m		1	50.00	3.00	0.20	. 30.00		
-	Ch: 1050m to 1100m		1	50.00	3.00	0.20	30.00		1 1 1 1 1 1 1
-	Ch: 1100m to 1150m		1	50.00	2.45	0.20	24.50		
	Ch: 1150m to 1200m	1 .	1	50.00	1.90	0.20	19.00		
	Ch: 1200m to 1250m		. 1	50.00	3.00	0.20	30.00		
	Ch: 1250m to 1300m		1	50.00	3.00	0.20	30.00	-	
_	Ch: 1300m to 1350m		1	50.00	3.00	0.20	30.00	-	
-	Ch: 1350m to 1400m		1	50.00	1.40	0.20	14.00		
1	Ch: 1400m to 1450m		1	50.00	3.00	0.20	30.00		
1	Ch: 1450m to 1475m		1	25.00	1.40	0.20	7.00		
	Deduction of Street Light Chamber Portion		74	0.80	0.80				
	0	1	7.4	0.00	0.00	0.20	-9.44		
		-	-				1281.96		
	KSPPR M400 17: Paraidi 1:	10				Say	1282.00	1994.92	2557487.44
	KSRRB - M400 - 17: Providing, laying, spreading an	Cum							* *
~	compacting crushed stone aggregates of granite / trap	/					÷ .	B. B.	
-	basalt to Wetmix macadam specifications includin	g							
	premixing the material with water at OMC in					1	- 1	- 1	
	mechanical mix plant carriage of mixed materials b	y		1					
	tipper to site, laying in uniform layers with paver in	1			1				
	sub-base / base course on well prepared surface and	1			- 1		- 1		
-	compacting with vibratory roller to achieve the desired	1			- 1		1	- 1	
	density complete as per specifications. MORTH Specification No. 406	1 1					.		
-	2010111 Specification No. 406				1		1		
	(P.No.155, I.No.20.18 of PW, P&IWTD SR 2018-19)		_						
	Western Side								
	Ch: 100m to 150m	1	1	50.00	2.32	0.05	00.04		
	Ch: 150m to 200m	1	1	25.20		0.25	28.94		
	Ch: 200m to 250m	1			2.25	0.25	14.14		
	Ch: 250m to 300m	 	1	50.00	1.98	0.25	24.75		
-	Ch: 300m to 350m		1	50.00	1.50	0.25	18.75	.7	
~			1	50.00	1.40	0.25	17.50	/	1 1 1
	Ch: 350m to 400m		1	50.00	1.40	0.25	17.50	1	-
	Ch: 400m to 450m		1	50.00	3.00	0.25	37.50	<i>}-</i>	
	Ch: 450m to 500m		1	50.00	3.00	0.25	37.50		
	Ch: 500m to 550m		1	50.00	2.43	0.25	30.38		
- 1	Ch: 550m to 600m			25.78	2.07				,
	Ch: 650m to 700m		1	20.10	2.071	0.25	13.34	Section 1	



Sl.		Uni	t No.	Lengtl	Breadth	Depth	Quantity		Amount
)	Ch: 700m to 750m			1 50.0		-	37.5	in Rs.	in Rs.
	Ch: 750m to 800m			1 38.4					
)[Ch: 800m to 850m		_	1 50.0		100			
	Ch: 850m to 900m	_	-	1 50.0		_	37.5		
T	Ch: 900m to 950m	+-	_	1 50.0			37.5		
,	Ch: 950m to 1000m	+	_					_	1 1 1
1	Ch: 1000m to 1050m	-	_	1 37.6			28.2		
)	Ch: 1050m to 1100m	-	_	1 50.0			37.5		
-	Ch: 1100m to 1150m			1 50.0	0.00	0.25	37.50)	
)				50.0	0 3.00	0.25	37.50		
-	Ch: 1150m to 1200m			50.0		0.25	37.50)	
1	Ch: 1200m to 1250m			41.8	9 3.00	0.25	31.45	2	
)	Ch: 1250m to 1300m			44.1	0 3.00	0.25	33:08		
()	Ch: 1300m to 1350m			50.0	0 3.00	0.25	37.50	_	
	Ch: 1350m to 1400m					0.25	28.56		
4 -	Ch: 1400m to 1450m	-				0.25	36.25	-	
)	Ch: 1450m to 1475m	_	1	25.0		0.25	16.72		
		_		20.0	2.00	0.20	10.72	+	
4	Eastern Side	+	-					 	
	Ch: 0m to 50m	1	1	50.0	9 30	0.95	00.75	-	-
v J	Ch: 50m to 100m	-	-			0.25	28.75		
	Ch: 100m to 150m	_	-	50.0	-	0.25	31.25		
	Ch: 150m to 200m	+	1			0.25	37.50		
1		-	1			0.25	27.50		
	Ch: 200m to 250m	1	1	50.00	1.60	0.25	20.00	• 1	V.
L.	Ch: 250m to 300m		1	50.00	3.00	0.25	37.50		
	Ch: 300m to 350m		1	50.00	1.50	0.25	18.75	7	
	Ch: 350m to 400m		1	50.00		0.25	18.75		
T	Ch: 400m to 450m	_	1	50.00		0.25			-
	Ch: 450m to 500m	-	1				18.75		-
-	Ch: 500m to 550m	+	1	50.00		0.25	18.75		
		-	1	50.00		0.25	18.75		
_	Ch: 550m to 600m		1	50.00	1.50	0.25	18.75		
-	Ch: 600m to 650m		1	50.00	1.50	0.25	18.75		
-	Ch: 650m to 700m		1	50.00	1.50	0.25	18.75		
40	Ch: 700m to 750m		1	50.00	1.87	0.25	23.38		
1	Ch: 750m to 800m		1	50.00		0.25	20.00		-
	Ch: 800m to 850m		1	50.00		0.25	25.00		
	Ch: 850m to 900m		1	50.00		0.25	25.00		-
	Ch: 900m to 950m		1	50.00		0.25	33.13		
1	Ch: 950m to 1000m		1	50.00		0.25	31.25	<u> </u>	· ·
	Ch: 1000m to 1050m	_	1	50.00					-
1	Ch: 1050m to 1100m					0.25	37.50		
-	Ch: 1100m to 1150m	-	1	50.00		0.25	37.50		
_			1	50.00		0.25	30.63		
-	Ch: 1150m to 1200m		1	50.00	1.90	0.25	23.75		
	Ch: 1200m to 1250m		1	50.00	3.00	0.25	37.50		
	Ch: 1250m to 1300m		1	50.00	3.00	0.25	37.50		
1	Ch: 1300m to 1350m		1	50.00	3.00	0.25	37.50		
1-1	Ch: 1350m to 1400m		1	50.00	1.40	0.25	17.50		
	Ch: 1400m to 1450m		1	50.00	3.00				
· -	Ch: 1450m to 1475m					0.25	37.50		
-	The state of the s		1	25.00	1.40	0.25	8.75		
1	Deduction of Street Light Chamber Portion		74	0.80	0.80	0.25	-11.80		
-							1602.45		
						Say		2001.28	3208051.84
)6	KSRB 14.6-1: Providing and laying heavy duty	Sqm				Jay	1003.00	2001.28	52V6V51.84
	interlock concrete paver block 60mm thick 300mm X	acadards.			1	1			
1	300mm, using cement and course sand for manufacture				9				
	of blocks of approved size, shape and colour with			19					
1	arminimum compressive strength of 281 kg per Sqm		- 1				1	¥ 1	
-	over 50mm thick sand bed (average thickness) and		- 1	- 1			1		
	compacting with plate vibrator having 3tons		- 1				1	0 1	
	compaction force thereby forcing part of sand					- 1	1		
	underneath to come up in between joints, final								
	compaction of paver surface joints into its final level,								
-1	including cost of materials, labour and HOM of			7			1	2	
	m achineries complete as per specifications.						1		
U:	Specification No. KBS								
-	(P.No.103, I.No.14.6 of PW, P&IWTD SR 2018-19)								0.277
	Western Side			-	ಮಾಹಿತಿ ಹಕ	0, 50000	ಆಡಯಾಲ	JOUND!	(1(4)



SI. No.	Description of work	Unit	No.	Length inm	Breadth inm		Quantity	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Amoun
	Ch: 100m to 150m		1		-	inm	115.75	in Rs.	in Rs.
	Ch: 150m to 200m		1	25.20	2.25		115.75		-
	Ch: 200m to 250m		1		1.98		56.57		-
	Ch: 250m to 300m		1		1.50		99.00 75.00		-
	Ch: 300m to 350m		1		1.40		70.00		-
	Ch: 350m to 400m		1	50.00	1.40				-
	Ch: 400m to 450m		1	50.00	3.00		70.00		
	Ch: 450m to 500m		1	50.00	3.00		150.00		-
	Ch: 500m to 550m		1	50.00	2.43		150.00 121.50		
	Ch: 550m to 600m		1	25.78	2.07		53.36		
-	Ch: 650m to 700m		1	50.00	3.00		150.00		
	Ch: 700m to 750m		1	50.00	3.00				
	Ch: 750m to 800m		1	38.45	3.00		150.00		
	Ch: 800m to 850m		1	50.00	3.00		115.35		
	Ch: 850m to 900m		1	50.00	3.00		150.00		
	Ch: 900m to 950m		1	50.00	3.00		150.00		
	Ch: 950m to 1000m		1	37.63	3.00		150.00		
	Ch: 1000m to 1050m		1	50.00	3.00		112.89		-
	Ch: 1050m to 1100m		1	50.00	3.00		150.00		
	Ch: 1100m to 1150m		1	50.00	3.00		150.00		
	Ch: 1150m to 1200m		1	50.00	3.00		150.00		
	Ch: 1200m to 1250m		1	41.89	3.00		125.67		
	Ch: 1250m to 1300m		1	44.10	3.00		132.30		
	Ch: 1300m to 1350m		1	50.00	3.00		150.00		
	Ch: 1350m to 1400m		1	38.08	3.00				
	Ch: 1400m to 1450m		1	50.00	2.90		114.24		
	Ch: 1450m to 1475m		1	25.00			145.00		
			-	25.00	2.68		66.88		
	Eastern Side		-				3273.51	and the same of	
	Ch: 0m to 50m		-	50.00	2 22				-
_	Ch: 50m to 100m		1	50.00	2.30		115.00		
\rightarrow	Ch: 100m to 150m		1	50.00	2.50		125.00		
	Ch: 150m to 200m		1	50.00	3.00		150.00		
	Ch: 200m to 250m		1	50.00	2.20		110.00		
	Ch: 250m to 300m		1	50.00	1.60		80.00		14
	Ch: 300m to 350m		1	50.00	3.00		150.00		13
	Ch: 350m to 400m		1	50.00	1.50		75.00		
	Ch: 400m to 450m		1	50.00	1.50		75.00		
	Ch: 450m to 500m		-1	50.00	1.50		75.00		
	Ch: 500m to 550m		1	50.00	1.50		75.00		
	Ch: 550m to 600m		1	50.00	1.50		75.00		
	Ch: 600m to 650m	\rightarrow	1	50.00	1.50		75.00		
	Ch: 650m to 700m		1	50.00	1.50		75.00		
	Ch: 700m to 750m		1	50.00	1.50		75.00	,	. ,
	Ch: 750m to 800m		1	50.00	1.87		93.50		
	Ch: 800m to 850m		1	50.00	1.60		80.00		
			1	50.00	2.00		100.00		
	Ch: 850m to 900m		1	50.00	2.00		100.00		1
_	Ch: 900m to 950m		1	50.00	2.65		132.50		
	Ch: 950m to 1000m		1	50.00	2.50		125.00		
	Ch: 11000m to 1050m		1	50.00	3.00		150.00		
	Ch: 1050m to 1100m		1	50.00	3.00		150.00		
	Ch: 1100m to 1150m		1	50.00	2.45		122.50		
	Ch: 1150m to 1200m		1	50.00	1.90		95.00		
	Ch: 1200m to 1250m		1	50.00	3.00		150.00		
	th: 1250m to 1300m		1	50.00	3.00		150.00		1 7
	h: 1300m to 1350m		1	50.00	3.00		150.00		
	h: 1350m to 1400m		1	50.00	1.40		70.00		
	h: 1400m to 1450m		1	50.00	3.00		150.00	4	
10	h: 1450m to 1475m		1	25.00	1.40		35.00		
+							3183.50	8	4
-							6457.01		
						Say	6458.00 11		208290.

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SI. No.	Description of work	Unit	Escapean)	Length	Control of the Contro	Depth	Quantity		Amount
4.07	KSRRB - M2100 - 13: Providing and laying Plain / Reinforced Cement Concrete mix 1:2:4 with OPC cement @240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including cost of all materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications complete as per Drawing and Technical Specifications MORTH Specification No. 1500, 1700 & 2100			mm	inm	inm		in Rs.	in Rs.
-	(P.No.222, I.No.27.24 in PW, P&IWTD SR 2018 - 19)								
	For Kerb Stone(Both Sides) Western Side								
	Eastern Side		1	1226	0.465	0.15	85.52	2	
			1	1475	0.465	0.15	189.88	3	-
-	For Cycle Track		1	1750.00	0.20	0.15	52.50		
							327.90		
4.08	Providing and laying Cement Concrete using 20mm	19				Say	328.00	5409.18	1774211.
	and down size granite coarse aggregates and fine aggregates of Ready mixed Concrete for RCC Works laid in 15cm thick layers and will compacted including vibrating, curing, etc. with all lead and lift, etc. complete (exclusive of cost of steel and fabrication charges) Readymixed Cement Concrete for Beams, Staircase and Roof with M30	*			¥				
	(P.No.19, I.No.4.49.3 in PW, P&IWTD SR 2018-19)	-	-						
	For Kerb Stone	-	-	-				,	
	Western Side	-	-	1000 10	0.00	0.100			
	Eastern Side	-	- 1	1226.13	0.30	0.125	45.98		
		-	1	1475.00	0.30	0.125	55.31		
		-	-				101.29		
	KSRRB - M2200-6: Providing TMT Steel Reinforcement T for RCC Work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200	onne				Say	102.00		605255,70
. (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018 - 19)		_	_		_			
	Consider 40kg/Cum for RCC M30						4.08		
-	Consider 40kg/Cum for Footpath zone Confinement(along	he Ro	ad)				9.72		
I	For Street Light Chamber Consider 70kg per Cum						15.12		
1	For Highmast Poles 70kg per Cum						8.20		
							37.12		
						Say	37.12 7	2326 08	2684767.95
r c w iii	KSRB 2.3: Filling available excavated carth Control of the control	ım							200 X 1 U 1.20
0	P.No.7, I.No.2.10 of PW, P&IWTD SR 2018-19)	_							
	, Div 2010-10)				and the same of th				
							9.105		- 1 - N

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4.11	Description of work		No.	Length in m	Breadth in m	Depth	Quantity		Amour
	KSRRB 2200-5.12: Providing and laying Design m M25 with OPC @340kgs, with 20mm and down signaded granite metal coarse aggregates @0.7Cum arfine aggregates @0.47 Cum, with superplasticiser @31 Conforming to IS: 9103-1999 Reaffirmed - 200 including cost of materials, labour, HOM curing, for	ts		III III	in m	in m		in Rs.	in Rs.
	work, scaffolding and centering complete as perspecifications. i)upto 5m height	er							
	(P.No.227, I.No.28.7.12 of PW, P&IWTD SR 2018 - 19)		<u></u>					-	
	For Footpath Zone Confinement at 7.5m Interval	T		T .	Elizabeth e			-	
	Western Side Ch: 0m to 1475m							-	
	along the Road		1	164.00	0.15	0.11	2.71		
_	Eastern Side		1	1226.13	0.30	0.30	110.35	+	
	Ch: 0m to 1475m	-						1	
	along the Road	-	1	-0.100	0.15	0.11	3.25		
	along the Road		1	1475.00	0.30	0.30	132.75		
							249.06		
12	Providing and fixing Precast solid concrete kert	× .				Say	250.00	5640.2	6 141006
	stonesmade out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. Size 450 x 150 x 500mm	Nos.				5, 5	E , -	2	
- 1	(P.No.27, I.No.5.29.2 in PW, P&IWTD SR 2018 - 19)		4						,
	For Footpath		1	2725.00			2725.00		
- 1	For Cycle Track		1	3889.00			3889.00		
3 5	Supply, Fabrication, Painting and Fixing of mild steel					Sav	6614.00	467.46	309178
d	Baskets, Cycle stands, Tree Guards, Edge angles, Bollards, etc and any other items as specified in trawings or as approved by Engineer - In - Charge. BMP Approved Rate								
									1
	ing Bollards at 0.40m Interval		_	_				:	
	ig Bollards at 0.40m Interval								, 1
	Vestern Side		7				7.00		
			35				35.00		
			35 21				35.00 21.00		
			35 21 20				35.00 21.00 20.00		
			35 21 20 19				35.00 21.00 20.00 19.00		, 1
			35 21 20 19 30			 	35.00 21.00 20.00 19.00 30.00		
			35 21 20 19 30 16	 			35.00 21.00 20.00 19.00 30.00 16.00		
W	Vestern Side		35 21 20 19 30 16 14				35.00 21.00 20.00 19.00 30.00 16.00 14.00		
W			35 21 20 19 30 16				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00		
W.	Vestern Side		35 21 20 19 30 16 14 20				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00		
W.	Vestern Side		35 21 20 19 30 16 14 20 42				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 16.00		
W	Vestern Side		35 21 20 19 30 16 14 20 42				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 16.00 26.00		
W.	Vestern Side		35 21 20 19 30 16 14 20 42 16 26				35.00 21.00 20.00 19.00 30.00 16.00 20.00 42.00 16.00 26.00 34.00		
W.	Vestern Side		35 21 20 19 30 16 14 20 42 16 26 34				35.00 21.00 20.00 19.00 30.00 16.00 20.00 42.00 16.00 26.00 34.00 14.00		
W	Vestern Side		35 21 20 19 30 16 14 20 42 16 26 34 14				35.00 21.00 20.00 19.00 30.00 16.00 20.00 42.00 16.00 26.00 34.00 14.00 17.00		
W	Vestern Side		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 34.00 14.00 17.00 42.00		
W	Vestern Side		35 21 20 19 30 16 14 20 42 16 26 34 14				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 34.00 14.00 17.00 42.00 20.00		
Ee	astern Side		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42 20				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 26.00 34.00 17.00 42.00 20.00 20.00		
Es	astern Side astern Side ar Junction		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42 20 20				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 34.00 17.00 42.00 20.00 20.00 8.00		
Es	astern Side		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42 20 20 8				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 34.00 14.00 17.00 42.00 20.00 20.00 20.00 8.00 98.00		
Ne. Inf	astern Side astern Side ar Junction front of Bus Shelters RRB M100-4.1: Cost of Haulage excluding Coding and unloading MORTH Chapter - 100/1 ad upto 19Km) for Earth(Excavated Soil)		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42 20 20 8 98				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 26.00 34.00 14.00 17.00 42.00 20.00 20.00 98.00 114.00	000.00	
Ne Inf KS loa (Le	astern Side astern Side ar Junction ront of Bus Shelters RRB M100-4.1: Cost of Haulage excluding Coding and unloading MORTH Chapter 100/1		35 21 20 19 30 16 14 20 42 16 26 34 14 17 42 20 20 8 98				35.00 21.00 20.00 19.00 30.00 16.00 14.00 20.00 42.00 26.00 34.00 14.00 17.00 42.00 20.00 20.00 98.00 114.00	000.00	2532000.0

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Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	10		
4.15	KSRRB - M800 - 20: Tubular Steel Railing on medium	m		inm	inm	inm	Quantit	Rate in Rs.	Amour in Rs.
	Weight Steel Channel (ISMC Series) 100mm x 50mm: Providing, fixing and erecting 50mm dia steel pipe railing in 3 rows duly painted onmedium weight steel channels (ISMC Series) 100mm x 50mm, 1.2m high above ground. 2m centre to centre, complete as per approved drawings as per specifications. MORTH Specification No. 808.					1 -			III KS.
	Pno 184, INo 24.24 of PW, P&IWTD SR 2018 - 19)					-			Labora -
	var co Cit. 175iii								
	Ch: 650m to Ch: 1475m		1	161.65			101.0		
			1	801.81		-	161.65	1	
						-	801.81		
						_	963.46	1511.50	145632
.00	Construction of Median					TD-4			
01 F	Providing and Fixing Precast Solid Cement Concrete Earash barrier / dividermade out ofm35 with top and					100	al Amou	nt	26995464
di fin re ch lif Tr an dir con	ottom width 100mm and 350mm respectively 1000mm eight and 2000mm in Length (as shown in the rawing), Finished with CM 1:3 plastering and nishing cutting, including form work TMT steel as equired curing, including cost allmaterial labour hire earges of machinery, loading, unloading, lead and ft, transportation etc., complete. To be laid between eavel lane, cycle track/ landscape etc., with all lead and lift, loading, unloading, complete and as per the rections of Engineer - in - Charge. (Form Finish increte and no painting to be done), (Excluding GST).								
KS	RB - M300 - 7.1 Planting permanent hedges m		1 12	00.00		Sav 1	200.00		
dee farr 100 30cr A)	cluding digging of trenches, 60cm wide and 45cm pp, refilling the excavated earthmixed with myardmanure, supplied at the rate of 4.65Cum per metres and supplying and planting hedge plants at m apart complete as per specifications. Planting permanent hedges including digging of sches RTH Specification No. 307.					zay 1	200.00	6400.00	7680000.0
P. N	lo. 149, I No. 19.84 of PW, P&IWTD SR 2018-19)							•	
1	, - St. 1D Dit 2010-19)	1	147	5.00		147	5.00 3	10.00	
						***	0.00	13.76	462796.00

ANAS PASSULTANTS

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	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	14
6.00	Constitution of Chiverte	-	-	inm	inm	inm	quantity	in Rs.	Amou in Rs.
3.01	KSRRB 300 - 50: Scarifying bituminous course 50mm 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as perspecifications. MORTH / Chapter 3 (Including loading and unloading and lead upto 20km)	ıt .						M Ks.	in ks.
	98.1								
	(P.No.146, I.No.19.56 of PW, P&IWTD SR 2018 · 19) (39*1.06+20*1.28*2+57)=150.34							-	-
	Western Side	-	1	, 16.30	3.00		48.90		-
		-	1	93.00	3.00		279.00		
			1	8.00	3.00		24.00		
_			1	8.40	3.00		25.20		
			1	9.41	3.00		31.50		+
-			- 1	9.41	3.00		28.23		
02			-			Say	436.83		
i s c	KSRRB - M300 - 14: Excavation for road work in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301						437.00	150.34	656
(P. No.143, I.No.19.14 of PW, P&IWTD SR 2018 - 19) Western Side					1/4	-		
+	vestern Side		1	16.30	3.00	2.75	134.48		
+			1	93.00	3.00	2.75	767.25	-	
-			1	8.00	3.00	2.75	66.00		
+			1	8.40	3.00	2.75	69.30	-	
+			1	10.50	3.00	2.75	86.63		
1			1	9.41	3.00	2.75	77.63	-	
1							1201.28		-
ar @(SRRB - M2200-5.1: Providing and laying cement (oncrete of mix 1:2:4 with OPC @ 240kgs, with 40mm and down size graded granite metal coarse aggregates 0.63Cum and fine aggregates @ 0.42Cum including set of materials, labour, HOM, curing, form works, affolding and contains	Cum				Say	1201.00	43.46	52195
Se a)ı	affolding and centering complete as perMORTH extion: 2200 & IS: 456						. 1		
Se a)ı (P.	upto 5m height . No.226 of INo 28.7.1 in PW. P&IWTD SR 2018 - 19)						-		
Se a)ı (P.	CHOII . 2200 & IS : 456		1	10.00					
Se a)ı (P.	upto 5m height . No.226 of INo 28.7.1 in PW. P&IWTD SR 2018 - 19)		1	16.30	3.00	0.10	4.89		
Se a)ı (P.	upto 5m height . No.226 of INo 28.7.1 in PW. P&IWTD SR 2018 - 19)		1 1 1	93.00	3.00	0.10	27.90		
Se a)ı (P.	upto 5m height . No.226 of INo 28.7.1 in PW. P&IWTD SR 2018 - 19)		1	93.00 8.00	3.00 3.00	0.10 0.10	27.90 2.40		
Se a)ı (P.	upto 5m height No.226 of INo 28.7.1 in PW, P&IWTD SR 2018 - 19) estern Side		1	93.00 8.00 8.40	3.00 3.00 3.00	0.10 0.10 0.10	27.90 2.40 2.52		
Se a)ı (P.	upto 5m height No.226 of INo 28.7.1 in PW, P&IWTD SR 2018 - 19) estern Side		1	93.00 8.00 8.40 10.50	3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15		
Se a)ı (P.	upto 5m height No.226 of INo 28.7.1 in PW, P&IWTD SR 2018 - 19) estern Side		1	93.00 8.00 8.40	3.00 3.00 3.00 3.00	0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82		
Se a)u (P. We	estern : 2200 & 1S : 456 upto 5m height No.226 of INo 28.7.1 in PW, P&IWTD SR 2018 - 19) estern Side		1	93.00 8.00 8.40 10.50	3.00 3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82 43.68	46.90	
KS) M2: grad fine Con in cli worl spec	RRB 2200-5.12: Providing and laying design mix Constraint Open and down size ded grahite metal coarse aggregates @0.7Cum and aggregates @0.47 Cum, with superplasticiser @31ts afforming to IS: 9103-1999 Reaffirmed - 2008 uding cost of materials, labour, HOM curing, form k, scaffolding and centering complete as per cifications.	m	1	93.00 8.00 8.40 10.50	3.00 3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82 43.68	46.26 2	252835.
KS) M2: grad fine Continction inclination specification (P.N.	RRB 2200-5.12: Providing and laying design mix Consistence of the Providing and down size ded grahite metal coarse aggregates @0.7Cum and a saggregates @0.47 Cum, with superplasticiser @31ts and providing the Providing and content of the Providing and the Providing and Content of th	m	1	93.00 8.00 8.40 10.50	3.00 3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82 43.68	46.26 2	252835.
KS) M2: grad fine Continction worl spec	RRB 2200-5.12: Providing and laying design mix Consistence of the open of the		1 1 1 1 1 1	93.00 8.00 8.40 10.50	3.00 3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82 43.68 44.00 57	46.26 2	252835.4
KS) M2: grad fine Continction worl spec	RRB 2200-5.12: Providing and laying design mix Consistence of the Providing and down size ded grahite metal coarse aggregates @0.7Cum and a saggregates @0.47 Cum, with superplasticiser @31ts and providing the Providing and content of the Providing and the Providing and Content of th		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93.00 8.00 8.40 10.50 9.41	3.00 3.00 3.00 3.00 3.00	0.10 0.10 0.10 0.10 0.10 0.10	27.90 2.40 2.52 3.15 2.82 43.68 44.00 57	46.26 2	252835.4
KS) M2: grad fine Con in cli worl spec	RRB 2200-5.12: Providing and laying design mix Consistence of the open of the		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93.00 8.00 8.40 10.50 9.41 6.30 6.30 3.00	3.00 3.00 3.00 3.00 3.00 3.00 8.50 0	0.10 0.10 0.10 0.10 0.10 0.10 Say	27.90 2.40 2.52 3.15 2.82 43.68 44.00 57	46.26 2	252835.4
KS) M2: grad fine Con in cli worl spec	RRB 2200-5.12: Providing and laying design mix Consistence of the open of the		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93.00 8.00 8.40 10.50 9.41 6.30 6.30	3.00 3.00 3.00 3.00 3.00 3.00 8.50 0 8.50 0	0.10 0.10 0.10 0.10 0.10 0.10 Say 20 20 20 1	27.90 2.40 2.52 3.15 2.82 43.68 44.00 57	46.26 2	252835.4

"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"



1 8.40 8.50 0.20 4.80 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 18.60 19.6	No.	Description of work	Uni	No.	in m	Breadth in m	Depth in m	Quantity		Amount
1 8.40 3.50 0.20 14.28		The state of the s	-	1	8.00			10	in Rs.	in Rs.
1 8,40 3.00 0.20 5.04 1 10.50 8.50 0.20 17.85 1 10.50 3.00 0.20 6.30 1 9.41 8.50 0.20 16.00 1 9.41 3.00 0.20 5.65 1 9.41 3.00 0.20 6.20 1 9.41 3.00 0.20 6.20 1 9.41 3.00 0.20 6.20 1 9.41 3.00 0.20 6.20 1 9.41 3.00 0.20 6.20			-	-						
1 10.50 8.50 0.20 17.85			-	1		3.00				-
1 10.50 3.00 0.20 6.30 1 9.41 8.50 0.20 16.00 1 9.41 3.00 0.20 5.65 334.90 5.05 KSRRB - M2200-6: Providing TMT Steel Reinforcement for RCC Work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) (P.No.229, I.No.28.8.2 in pw. P&IwTD SR 2018-19) (B.KSRB 2.4: Refilling available earth around pipeline, cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) (P.No.136 I.No. 17.4 of PW, P&IWTD SR 2018-19) (P.No.136 I.No. 17.4 of PW, P&IWTD SR 2018-19) (19*1.28*2)=48.64			-	1		8.50	0.20			
1 9.41 8.50 0.20 16.00 1 9.41 3.00 0.20 5.65 SSRRB - M2200-6: Providing TMT Steel Reinforcement Tonne for RCC Work including straightening, cutting bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour. HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) 80kgs per Cum Cum. cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m. and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) KSRRB M100.4.1: Cost of Haulage excluding Cum loading and unloading MORTH Chapter - 100/1 (Lead upto 19Km) for Earth(Excavated Soil) (P. No.136 I.No 17.4 of PW, P&IWTD SR 2018-19) (P. No.136 I.No 17.4 of PW, P&IWTD SR 2018-19) (P. No.136 I.No 17.4 of PW, P&IWTD SR 2018-19)			-	_		3.00	0.20			
KSRRB - M2200-6: Providing TMT Steel Reinforcement Tonne for RCC Work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, trying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) 80kgs per Cum 66 KSRB 2.4: Refilling available earth around pipeline, Cum. cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) KSRRB M100-4.1: Cost of Haulage excluding Cum loading and unloading MORTH Chapter - 100/1 (Lead upto 19km) for Earth(Excavated Soil) (P. No.136 I.No. 17.4 of PW, P&IWTD SR 2018-19) (19*1.28*2)=48.64		Control of the second of the s	-	1		8.50	0.20		1	
5.05 KSRRB - M2200-6: Providing TMT Steel Reinforcement for RCC Work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) 80kgs per Cum 66 KSRB 2.4: Refilling available earth around pipeline, Cum. cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) 76 KSRRB M100-41: Cost of Haulage excluding Cum loading and unloading MORTH Chapter - 100/1 (Lead upto 19km) for Earth(Excavated Soil) (P. No.136 I.No. 17.4 of PW, P&IWTD SR 2018-19) (19*1.28*2)=48.64			-	1	9.41	3.00	0.20			
for RCC Work including Straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) 80kgs per Cum 66 KSRB 2.4: Refilling available earth around pipeline, cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) KSRRB M100-4.1: Cost of Haulage excluding loading and unloading MORTH Chapter 100/1 (Lead upto 19km) for Earth(Excavated Soil) (P. No.136 I.No. 17.4 of PW, P&IWTD S.R 2018-19) (19*1.28*2)=48.64			-							-
bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks and wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 (P.No.229, L.No.28.8.2 in PW, P&IWTD SR 2018-19) 80kgs per Cum Cables in layers not exceeding 20cms depth, compacting each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) KSRRB M100-4.1: Cost of Haulage excluding Cum loading and unloading MORTH Chapter - 100/1 (Lead upto 19km) for Earth(Excavated Soil) (P. No. 136 I.No. 17.4 of PW, P&IWTD S.R 2018-19) (19*1.28*2)=48.64	5.05	KSRRB - M2200-6: Providing TMT Steel Painform	-				Sav			
each deposited layers by ramming after watering with lead upto 50m.and lift upto 1.5mtrs including cost of all labour complete as per specifications. (P.No.7, I.No.2.11 of PW, P&IWTD SR 2018-19) 7 KSRRB M100-4.1: Cost of Haulage excluding Cum loading and unloading MORTH Chapter - 100/1 (Lead upto 19Km) for Earth(Excavated Soil) (P. No.136 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) (19*1.28*2)=48.64 379.00 48.64 18434	((and anchoring to the adjoiningmembers wherever necessary complete as per design (laps, hooks an wastage shall not bemeasured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 PMT Bars Fe 500 P.No.229, I.No.28.8.2 in PW, P&IWTD SR 2018-19) Rokgs per Cum	e r d f							
No. 100-4.1: Cost of Haulage excluding Cum	le la (P	ach deposited layers by ramming after watering with ead upto 50m.and lift upto 1.5mtrs including cost of all abour complete as per specifications. 2.No.7, I.No.2.11 of PW. PS-IWTD, CR 2015 151			4			26.80 7	2326.98	1938363.0
(P. No.136 I.No. 17.4 of PW, P&IWTD S.R 2018 - 19) (19*1.28*2)=48.64 379.00 48.64 18434	lo: (L	ading and unloading MORTH Chapter - 100/1 ead upto 19Km) for Earth (Excavated Soil)	Cum	+				822.00	128.26	105429.72
373.00 48.64 18434	(P.	No. 136 I. No. 17.4 of PW PRIWTD CR 2010						270.00		
								3 19.00	48.64	18434.56
Total Amount 4322442										



Page 32 of 49

No.	Description of work			No.		Breadt			Quantit	ty Rate	Amou
7.00	Carriageway Construction / Strengthening	Work			inm	inm	inn	1		in Rs.	in Rs.
a.	a. Construction of Carriageway in the Wide	WOFK	S								
7.01	KSRRB - M300 - 14: Excavation for road work in	ned P	ort	ion				100			
	types of soil by mechanical means including cutting a	all Cu	m								
	loading to tippers, trimming bottom and side slopes,	ind	- 1					- 1			1
	accordance with requirements of lines, grades and cre	in	- 1			1		- 1			
	sections, and transportation with a land of	oss				1				1	
	sections, and transportation with a lead of 1km a complete as per specifications.	nd	- 1							1	
	MORTH Specification No. 301										
	(P. No. 143 I No. 10 14 of DV De IVIDE										
	(P. No.143, I.No.19.14 of PW, P&IWTD SR 2018 - 19)	1								-	$\overline{}$
	Ch:-0 to 50mtrs			1	50.00	10.:	10 1	.30	050.5		
1	Ch:-50 to 100mtrs		_	1	50.00		-		656.5		
	Ch:-100 to 150mtrs		+	1		2011		.30	656,5		
	Ch:-150 to 200mtrs	_	+		50.00		_	30	884.0	0	
	Ch:-200 to 250mtrs	-	-	1	50.00	20.0	5 1.	30	887.2	5	
	Ch:-200 to 250mtrs			1	50.00	10.9	5 1.	30	711.7	5	
				1	50.00	6.4		30	416.0		
_	Ch:-250.00 to 300.00mtrs			1	50.00						
	Ch:-300.00 to 350.00mtrs	_	+	1				30	490.7		
	Ch:-350.00 to 400.00mtrs		+	- territoria	50.00		_	30	581.7	5	
	Ch:-400.00 to 450.00mtrs		+	1	50.00		5 1.:	30	393.28	5	
	Ch:-450.00 to 500.00mtrs			1	50.00	6.8	0 1.3	30	442.00	the state of the s	-
-	Ch. 500 00 to 500.00mtrs			1	50.00				188.50		+
	Ch:-500.00 to 550.00mtrs			1	50.00	9.6		_	624.00		-
- 1	Ch:-650.00 to 700.00mtrs		\top	1	50.00	19.40					-
	Ch:-700.00 to 750.00mtrs		1	1	50.00	17.1			1261.00		
. (Ch:-750.00 to 800.00mtrs	_	1	1	50.00			_	1112.15		
(Ch:-800.00 to 850.00mtrs		+	_		16.18		_	1051.70		
(Ch:-850.00 to 900.00mtrs	+	+-	1	50.00	18.84		10	1224.60		
10	Ch:-900.00 to 950.00mtrs	-	-	1	50.00	14.98	1.3	10	973.70		
				1	50.00	12.88	1.3	0	837.20		
	Ch:-950.00 to 1000.00mtrs			1	50.00	12.41		_	806.65		
	Ch:-1000.00 to 1050.00mtrs			1	50.00	11.10		_			
10	Ch:-1050.00 to 1100.00mtrs		1	1	50.00	10.60	_		721.50		
10	Ch:-1100.00 to 1150.00mtrs	+	+						689.00		
10	Ch:-1150.00 to 1200.00mtrs	_	-	1	50.00	10.82		0	703.30		
10	Ch:-1200.00 to 1275.00mtrs	-	_	1	50.00	10.48	1.30	0	681.20		
10	2h. 1975 00	:		1	75.00	12.37	1.30		206.08		-
10	Ch:-1275.00 to 1300.00mtrs			1	25.00	11.85	1.30	_	385.13		-
10	Ch:-1300.00 to 1350.00mtrs			1	50.00	8.30		_			-
C	Ch:-1350.00 to 1400.00mtrs			1			1.30	_	539.50		
C	Ch:-1400.00 to 1450.00mtrs	-		1	50.00	3.55	1.30	_	230.75		
C	Ch:-1450.00 to 1475.00mtrs	-	_	1	50.00	1.45	1.30		94.25		-
-	41. 1400.00 to 1475.00mtrs			1	25.00	0.65	1.30)	21.19		
+								19	471.14		
K	SPR 99 . Billi						Say		472.00	43.46	84625
60	SRB 2.3 : Filling available excavated earth	Cum								10.10	04020
Ce	excluding rock) embackment with available earth in	. 1			9.			100			
Fo	oad upto plinth in layers not exceeding 20cm in depth,			-1		1		1	- 1		
100	ompacting each deposited layer by ramming after					1	- 0				
W	atering with lead upto 50m and lift upto 1.5m									1	
ın	icluding cost of all labour complete as per										
sp	pecifications.	1		72.	1	1		1			
Sp	pecification No. KBS 2.9					- 1		6			
-	No.7, I.No.2.10 of PW, P&IWTD SR 2018-19)							•			
CI	n. 550 00 + 600 00							1-5-5-1			
	h:-550.00 to 600.00mtrs		- 3	1	50.00	18.78	0.8	7	51.20		
Ch	h:-600.00 to 650.00mtrs			1	50.00	18.48	0.8		39.20		
						10.10	0.0	_		212.44	
KS	SRRB - M300-55: Construction of Sub-Grade and	Cum		_			_	14	90.40	213.06	317544
Ea	arthen Shoulders with approved materials Gravel			1		1					
/m	urrum with all lifts and leads, transporting to site.	- 1							. 1		
Sm	reading, grading to required slope and compacted			1/4		1					
I-MA	meet requirement of Table 300 - 2 complete as per	9					1		- 1	8	
ton	ecifications, including cost of earth, watering charges						- 1			7	
ton	compaction by vibratory roller to 97% ofmodified						- 1			1	
ton	compaction by vibratory roller in 97% ofmodified			1						3	
ton spe	octor Density.						- 1	y.	1	1	
spe & Pro	octor Density.										
spe & Pro	octor Density. DRTH Specification No. 305										
spo & Pro MIC CB	octor Density. ORTH Specification No. 305 BR Value of Sub grade soil 10%										
Pro MIC CB	octor Density. DRTH Specification No. 305 BR Value of Sub grade soil 10% No.147, I.No.19.62 of PW, P&IWTD SR 2018 - 19)								-		
Pro MIC CB	Octor Density. DRTH Specification No. 305 BR Value of Sub grade soil 10% No.147, I.No.19.62 of PW, P&IWTD SR 2018 - 19) stern Side								-		
Pro MIC CB (P.1 Eas	octor Density. DRTH Specification No. 305 BR Value of Sub grade soil 10% No.147, I.No.19.62 of PW, P&IWTD SR 2018 - 19)		1 1	-	50.00	14.10 9.27	0.50	35	2.50		

"ಮಾಹಿತಿ ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ

Sl. No.	Description of work .	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
	Ch: 100m to 150m	18	1	50.00	The state of the s		185.00		In Ks.
_	Ch: 150m to 200m		1	50.00	4.22	0.50			
	Ch: 200m to 250m		1	50.00		0.50	66.75		1
	Ch: 250m to 300m Ch: 300m to 350m		1	50.00			140.00		
	Ch: 350m to 400m	-	1	50.00		-	300.75		
	Ch: 400m to 450m	-	1	50.00		-	322.50		
	Ch: 450m to 500m	-	1	50.00			321.25		
	Ch: 500m to 550m	-	1	50.00			321.25		
	Ch: 550m to 600m	+	1	50.00	13.62		340,50		
	Ch: 600m to 650m	_	1	50.00	21.00 23.23		525,00		
	Ch: 650m to 700m	_	1	50.00		0.00	580.75		
	Ch: 700m to 750m	-	1	50.00	18.07 13.63	0.50	451.75		-
	Ch: 750m to 800m		1	50.00	12.85		340.75		
	Ch: 800m to 850m		1	50.00	12.85		321.25		-
	Ch: 850m to 900m	-	1	50.00	12.85	0.50	321.25		
	Ch: 900m to 950m		1	50.00		0.50	321.25		
	Ch: 950m to 1000m	+	1	50.00	12.85	0.50	321.25		
	Ch: 1000m to 1050m	+	1	50.00	12.85	0.50	321.25		
	Ch: 1050m to 1100m	+			12.85	0.50	321.25		
	Ch: 1100m to 1150m	-	1	50.00	12.85	0.50	321.25		
	Ch: 1150m to 1200m		1	50.00	12.85	0.50	321.25	N	
	Ch: 1200m to 1275m	1	1	75.00	12.85	0.50	321.25		
	Ch: 1275m to 1300m	1	1	25.00	12.90 12.90	0.50	483.75		9
	Ch: 1250m to 1300m		1	50.00	12.20	0.50	161.25		
	Ch: 1300m to 1350m		1	50.00	8.85	0.50	305.00 221.25		
	Ch: 1350m to 1400m		1	50.00	8.94	0.50	223.50		-
	Ch: 1400m to 1450m		1	50.00	3.62	0.50	90.50		
	Ch: 1450m to 1475m		1	25.00	1.86	0.50	23.25		-
	45m Length		1	45.00	1.30	0.50	29.25		
	465m Length		1	465.00	0.80	0.50			
	Deduct Cobble Stone Area		1	5.18	1.60	0.50	186.00		
			1	15.21	1.60	0.50	-4.14		
- 1			1	32.23	1.60	0.50	-12.17 -25.78		
_			1	15.25	1.60	0.50	The second secon	•	
_			1	15.16	1.60	0.50	-12.20		
_			1	15.37	1.60		-12.13		
			-	10.07	1.00	0.50	-12.30		and the same
						G	9122.28		
)4	Construction of granular sub-base Grading-V as Sub-	Cum	_			Say	9122.00	369.94	3374592.68
	base and drainage layer by Providing coarse graded crushed stone aggregate of granite / trap / basaltmaterial, mixing in amechanicalmix plant at OMC, Carriage of mixedmaterial to work site.								-1
1	spreading in uniform layers withmotor grader on orepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision								
1 1 (orepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19)								
1 1 (orepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Eastern Side								
1 () () () () () () () () () (prepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Eastern Side Ch: 0m to 50m		1	50.00	14.10	0.20	141.00		
(C	Description of the process of the compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Eastern Side Ch: 0m to 50m Ch: 50m to 100m		1 1	50.00 50.00	14.10 9.27	0.20	141.00 92.70	-	
(C)	Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m		_			0.20	92.70		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	corepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m		1	50.00	9.27 7.40	0.20 0.20	92.70 74.00		
	Ch: 100m to 150m Ch: 150m to 250m Ch: 200m to 250m		1	50.00 50.00	9.27 7.40 4.22	0.20 0.20 0.20	92.70 74.00 42.20		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 200m to 250m Ch: 250m to 300m		1 1 1	50.00 50.00 50.00	9.27 7.40 4.22 2.67	0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 200m to 250m Ch: 250m to 300m Ch: 300m to 350m		1 1 1	50.00 50.00 50.00 50.00	9.27 7.40 4.22	0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 200m to 250m Ch: 250m to 300m Ch: 300m to 350m Ch: 350m to 400m		1 1 1 1	50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03	0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 200m to 250m Ch: 250m to 300m Ch: 300m to 350m Ch: 350m to 400m Ch: 400m to 450m		1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90	0.20 0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00		
	Cherchard surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per Specifications. Clause 401 ofMORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 400m Ch: 450m to 450m Ch: 450m to 500m		1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03	0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00 128.50		
	Cherebased surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 of MORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 150m to 200m Ch: 200m to 250m Ch: 250m to 300m Ch: 350m to 350m Ch: 350m to 400m Ch: 450m to 550m Ch: 450m to 550m Ch: 450m to 550m		1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00 128.50 128.50		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 ofMORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 250m to 200m Ch: 250m to 300m Ch: 300m to 350m Ch: 350m to 400m Ch: 450m to 500m Ch: 450m to 550m Ch: 450m to 550m Ch: 550m to 600m		1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00 128.50 128.50 136.20		
	Chespared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 ofMORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 150m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 300m to 350m Ch: 300m to 350m Ch: 350m to 400m Ch: 450m to 500m Ch: 450m to 550m Ch: 550m to 600m Ch: 600m to 650m		1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00 128.50 128.50 136.20 210.00		
	Cherepared surface and compacting with vibratory power coller to achieve the 98% proctor density, complete as per Specifications. Clause 401 ofMORTH V Revision P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 - 19) Castern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 250m to 200m Ch: 250m to 300m Ch: 300m to 350m Ch: 350m to 400m Ch: 450m to 500m Ch: 450m to 550m Ch: 450m to 550m Ch: 550m to 600m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62	0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20	92.70 74.00 42.20 26.70 56.00 120.30 129.00 128.50 128.50 136.20		

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No.			Unit	Na.	Length			Depth	Quan	tity	Rate	Am
	Ch: 750m to 800m			1	inm	inm		inm		- 5	in Rs.	
	Ch: 800m to 850m			1	50.0		2.85	0.20	12	28.50		
	Ch: 850m to 900m			1	00.0	-	2.85	0.20		28.50		
	Ch: 900m to 950m		-	1	00.0		2.85	0.20		8.50		
	Ch: 950m to 1000m			1		-	2.85	0.20	12	8.50		
	Ch: 1000m to 1050m		-	1	00.0	-	2.85	0.20	12	8.50		
-	Ch: 1050m to 1100m		-	1	50.00		2.85	0.20	12	8.50		
	Ch: 1100m to 1150m			1	50.00		2.85	0.20	12	8.50		
	Ch: 1150m to 1200m		-	1	50.00	-	2.85	0.20	128	8.50		
	Ch: 1200m to 1275m		-	1	50.00		2.85	0.20	128	3.50		
	Ch: 1275m to 1300m		-		75.00		2.90	0.20	193	3.50		
	Ch: 1250m to 1300m			1	25.00		.90	0.20	64	.50		
	Ch: 1300m to 1350m		-	1	50.00		.20	0.20	122	2.00		
	Ch: 1350m to 1400m		_	- 1	50.00	8	.85	0.20	88	.50		+
	Ch: 1400m to 1450m			1	50.00	8	.94	0.20	89	.40		-
	Ch: 1450m to 1475m			1	50.00	3.	.62	0.20		.20		+
	45m Length			1	25.00	1.	.86	0.20		.30		-
	465m Length			1	45.00	1.	30	0.20	11.	10000		-
	Deduct Cobble Stone Area			1	465.00	0.		0.20				-
	ouder cobble Stone Area			1	5.18	1.0	_	0.20	74.			
-				1	15.21	1.0			-1.		7 .	
-				1	32.23		_	0.20	-4.			
-				1	15.25	1.6		0.20	-10.3	_		
-				1	15.16	1.6		0.20	-4.8			
-				1	15.37	1.6	_	0.20	-4.8			
-			_	-	10.07	1.6	50	0.20	-4.9			
5 K	CORD						-		3648.9			
IN IN	SRRB - M400 - 17: Providing, laying, spreading properties of granite of a salt to Westminness of granite of gr	ng and Cu		_		A		Say	3649.0	0 1	994.92	7279
in tip su con de:	asalt to Wetmixmacadam specifications incremixing the material with water at mechanicalmix plant carriage of mixedmateri oper to site, laying in uniform layers with path-base/base course on well prepared surface impacting with vibratory roller to achieve the distributions.	OMC als by ver in										
in tip su con de: M(mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle base/base course on well prepared surfact impacting with vibratory roller to achieve the drawity complete as per specifications. ORTH Specification No. 406	OMC als by ver in and esired			. •							
in tip su con de: MC	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric per to site, laying in uniform layers with particles behave base course on well prepared surface impacting with vibratory roller to achieve the distribution of the sity complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW. P&IWTD SR 2018	OMC als by ver in and esired	4			.,,						
in tip su cool de:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle ob-base/base course on well prepared surface impacting with vibratory roller to achieve the distribution of the sity complete as per specifications. ORTH Specification No. 406 No.155, I.No.20.18 of PW, P&IWTD SR 2018 - 18 stern Side	OMC als by ver in and esired										
in tip su conde: MC	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle observations of the site of	OMC als by ver in and esired										
in tip su con de: M(C). (P. Ea Ch: Ch:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle observations. It is a superior of the site of the si	OMC als by ver in and esired	_		50.00	14.10	0.	25	176.25			
in tip su con de MC (P. Ea Ch: Ch:	mechanicalmix plant carriage of mixedmateric per to site, laying in uniform layers with particle behave been course on well prepared surface impacting with vibratory roller to achieve the desire to achieve the desire to site to achieve the desire to achieve the desired to achieve the de	OMC als by ver in and esired		1 5	50.00	14.10 9.27	0.		176.25 115.88			
in tip su conde: MC	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle observations on well prepared surface impacting with vibratory roller to achieve the desired of the sity complete as per specifications. ORTH Specification No. 406 No.155, I.No.20.18 of PW, P&IWTD SR 2018 - 100 to 50 m 50m to 50 m 100m to 150 m 150m to 200 m	OMC als by ver in and esired		1 8	50.00	9.27 7.40	-	25				
in tip su con de: M(C). Ea Ch: Ch: Ch: Ch:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle observations on well prepared surface impacting with vibratory roller to achieve the desired of the sity complete as per specifications. ORTH Specification No. 406 No.155, I.No.20.18 of PW, P&IWTD SR 2018 - 100 to 50 m 50m to 50m 100m to 150m 150m to 200m 200m to 250m	OMC als by ver in and esired		1 6	50.00 50.00	9.27 7.40 4.22	0.	25 25	115.88			
in tip su con de: M(C). Ea Ch: Ch: Ch: Ch: Ch:	mechanicalmix plant carriage of mixedmateric per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to achieve the description of the prepared surface in sity complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW, P&IWTD SR 2018 - 12 is stern Side 100m to 50m 100m to 100m 1150m to 200m 200m to 250m 250m to 300m	OMC als by ver in and esired		1 5	50.00 50.00 60.00	9.27 7.40	0.	25 25 25	115.88 92.50			
in tip su con de: MC (P. Ea Ch: Ch: Ch: Ch: Ch:	mechanicalmix plant carriage of mixedmateric piper to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to achieve the description of the site of the s	OMC als by ver in and esired	1 1	1 5 1 5 1 5 5	50.00 50.00 50.00 60.00	9.27 7.40 4.22 2.67 5.60	0	25 25 25 25	92.50 52.75			
in tip su cool de cool	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric pper to site, laying in uniform layers with particle base/base course on well prepared surface impacting with vibratory roller to achieve the description of the complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20.18 of PW, P&IWTD SR 2018 - 100 to 50 m 50m to 50m 150m to 100m 100m to 150m 250m to 200m 200m to 250m 250m to 300m 300m to 350m 350m to 400m	OMC als by ver in and esired	1 1 1	1 5 1 5 1 5 5 5	50.00 50.00 50.00 60.00 60.00	9.27 7.40 4.22 2.67	0.: 0.: 0.:	25 25 25 25 25	115.88 92.50 52.75 33.38 70.00			
in tip su cool de cool	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric poper to site, laying in uniform layers with particle base/base course on well prepared surface impacting with vibratory roller to achieve the description of the surface in the surface i	OMC als by ver in and esired	1 1 1 1	1 5 1 5 1 5 5 5	50.00 50.00 50.00 60.00	9.27 7.40 4.22 2.67 5.60	0.: 0.: 0.: 0.:	25 25 25 25 25 25	115.88 92.50 52.75 33.38 70.00 150.38			
in tip su cool de cool	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric poper to site, laying in uniform layers with particle base/base course on well prepared surface impacting with vibratory roller to achieve the description of the surface in the surface i	OMC als by ver in and esired	1 1 1 1 1	1 5 1 5 1 5 5 5	50.00 50.00 50.00 60.00 60.00	9.27 7.40 4.22 2.67 5.60 12.03	0.: 0.: 0.: 0.: 0.: 0.: 0.: 0.: 0.:	25 25 25 25 25 25 25	92.50 52.75 33.38 70.00 150.38 161.25			
in tip su con de	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle base/base course on well prepared surface impacting with vibratory roller to achieve the distribution of the complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW, P&IWTD SR 2018 - 18. Instern Side Instrument of the complete in the co	OMC als by ver in and esired	1 1 1 1	1 8 1 6 1 5 1 5 5 5 5 5 6 5 6	50.00 50.00 50.00 60.00 60.00 0.00 0.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90	0 0 0 0 0 0 0 0	25 25 25 25 25 25 25 25 25 25 25	92.50 52.75 33.38 70.00 150.38 161.25 160.63			
in tip su conde: MC (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to site, laying in uniform layers with particle per to achieve the description of the site of the	OMC als by ver in and esired	1 1 1 1 1	1	50.00 50.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85	0 0 0 0 0 0 0 0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63			
in tip su conde (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle behavior of the proper to site, laying in uniform layers with particle behavior of the proper to site, laying in uniform layers with particle behavior of the proper to site, laying in uniform layers with particle behavior of the property of the propert	OMC als by ver in and esired	1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62	0 0.5 0.2 0.2 0.2 0.2 0.2	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25			
in tip su conde (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle of the site, laying in uniform layers with particle of the site, laying in uniform layers with particle of the site of the s	OMC als by ver in and esired	1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00	0 0.: 0.: 0.: 0.: 0.: 0.: 0.: 0.: 0.:	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50			
in tip su con de	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric poper to site, laying in uniform layers with particle beautiful properties of the pr	OMC als by ver in and esired	1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23	0 0 0 0 0 0 0 0	225 225 225 225 225 225 225 225 225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 60.63 70.25 62.50 90.38			
in tip su condend the condend to condend the c	mechanicalmix plant carriage of mixedmateric mechanicalmix plant carriage of mixedmateric poper to site, laying in uniform layers with particle base/base course on well prepared surface insity complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW, P&IWTD SR 2018 - 18 course of the second steern Side 100m to 50m 150m to 100m 150m to 200m 200m to 250m 250m to 300m 300m to 350m 350m to 400m 400m to 450m 550m to 600m 550m to 600m 550m to 700m 560m to 700m	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00 23.23 18.07	0 0 0 0 0 0 0 0	225 225 225 225 225 225 225 225 225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88			
in tip su con de	mechanicalmix plant carriage of mixedmaterial mechanicalmix plant carriage of mixedmaterial poper to site, laying in uniform layers with paulo-base/base course on well prepared surface insity complete as per specifications. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW, P&IWTD SR 2018 - Stern Side Om to 50m 50m to 100m 150m to 150m 250m to 200m 200m to 250m 250m to 300m 300m to 350m 350m to 400m 400m to 450m 450m to 500m 550m to 650m 550m to 700m 700m to 750m	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 50.00 60.00 60.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00 23.23 18.07 13.63	0 0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38			
in tip su con de	mechanicalmix plant carriage of mixedmaterial mechanicalmix plant carriage of mixedmaterial poper to site, laying in uniform layers with paulo-base/base course on well prepared surface impacting with vibratory roller to achieve the distribution of the properties of of the proper	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00 23.23 18.07 13.63 12.85	0 0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88			
in tip su conde (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to achieve the description of the surface surface and properties. ORTH Specification No. 406 No. 155, I.No. 20. 18 of PW, P&IWTD SR 2018 - 18 stern Side Tom to 50m Tom to 50m Tom to 100m Tom to 150m Tom to 200m Tom to 350m Tom to 400m Tom to 550m Tom to 500m Tom to 550m Tom to 650m Tom to 750m Tom to 800m Tom to 800m Tom to 900m Tom to 900m	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85	0 0	25 25 25 25 25 25 25 25	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38			
in tip su conde (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric oper to site, laying in uniform layers with particle of the site, laying in uniform layers with particle of the site, laying in uniform layers with particle of the site, laying in uniform layers with particle of the site of t	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85	0 0	25 25 25 25 25 25 25 25	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38 60.63			
in tip su conde (P. Ea Ch:	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to achieve the description of the property of the property of the description of the property of the pr	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85	0 0	25 25 25 25 25 25 25 25 25 25 25 25 25 2	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38 60.63 60.63			
in tip su con de	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to site, laying in uniform layers with particle proper to achieve the description of the property of the description of the property of the description of the	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85 12.85	0 0 0 0 0 0 0 0	225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38 30.63 30.63 30.63			
in tip su con de de de de de de de d	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to achieve the discovered by the surface of the site of th	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85 12.85	0 0 0 0 0 0 0 0	225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 160.63 70.25 62.50 90.38 25.88 70.38 60.63 60.63 60.63 60.63 60.63			
in tip su con de de de de de de de d	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to achieve the description of the property of of the pro	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50.00 50.00 50.00 60	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85 12.85 12.85	0 0 0 0 0 0 0 0	225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 160.63 170.25 162.50 190.38 25.88 170.38 180.63			
Ch: 6 Ch: 6 Ch: 7 Ch: 8 Ch: 7 Ch: 8 Ch: 9 Ch: 10 Ch: 10 Ch: 11 Ch: 11 Ch: 11	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle behave been course on well prepared surface in material with vibratory roller to achieve the description of the course on well prepared surface in material with vibratory roller to achieve the description of the course of the course on well prepared surface in material with particle in the course of the cou	OMC als by ver in and esired		1	50.00 50	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85 12.85 12.85 12.85 12.85	0 0 0 0 0 0 0 0	225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 160.63 70.25 62.50 90.38 25.88 70.38 30.63 30.63 30.63 30.63 30.63 30.63 30.63 30.63			
Ch: 6 Ch: 6 Ch: 7 Ch: 8 Ch: 9 Ch: 9 Ch: 10 Ch: 11 Ch: 11 Ch: 11	mechanicalmix plant carriage of mixedmateric proper to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to site, laying in uniform layers with particle before to achieve the description of the property of of the pro	OMC als by ver in and esired	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	50.00 50	9.27 7.40 4.22 2.67 5.60 12.03 12.90 12.85 12.85 13.62 21.00 23.23 18.07 13.63 12.85 12.85 12.85 12.85 12.85 12.85 12.85 12.85 12.85	0 0 0 0 0 0 0 0	225 225	115.88 92.50 52.75 33.38 70.00 150.38 161.25 160.63 70.25 62.50 90.38 25.88 70.38 30.63 30.63 30.63 30.63 30.63 30.63			

"ಮಾಹಿತಿ ಹೆಕ್ಕು ಕಾಯ್ದೆ ಆಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"



No.			Unit	No.	Lengt	h I	Breadth	Depth	Quantity	Rate	1.
	Ch: 1275m to 1300m	_	-	-	inm	i	nm	inm	- Cuantity	in Rs.	Amoun
	Ch: 1300m to 1350m	-		+	25.		12.90	0.25	80.6		in Rs.
	Ch: 1350m to 1400m	-	-		00.0		8.85	0.25		_	_
_	Ch: 1400m to 1450m		1	1 1	00.0		8.94	0.25			_
_	Ch: 1450m to 1475m		-	1	00.0		3.62	0.25	45.28		_
	45m Length	_	+	1		-	1.86	0.25	11.68	3	
_	465m Length			1	465.0		1.30	0.25	14.63	A CONTRACTOR OF THE PARTY OF TH	
_	Deduct Cobble Stone Area			1	5.1		0.80	0.25	93.00		
				1	15.2		1.60	0.25	-2.07		
_				1	32.2	_	1.60	0.25	-6.08		
_				1	15.25	1.0	1.60	0.25	-12.89		
				1	15.16	_	1.60	0.25	-6.10	1	1
				1	15.37		1.60	0.25	-6.06		7.83
					20.07	-	1.60	0.25	-6.15		
06	KSRRB 500 4. Provide					+		G .	4408.64		
	KSRRB 500-4: Providing and applying primer c	oat	Sqm			-		Say	4409.00	2001.28	8823643
	soil base @0.90kg/Sam over present stabili	zed					- 1				
			- 1					- 1		74	
		set									
	abour. Hill complete	- 1	- 1	- 1			4	- 1		a	350
18	specifications	per	1							. 1	
10	I.No.21.5, Issue Rate as on 01 - 01 - 19)				. 1				7]		
10	Ch: 0m to 50m	L					-				
C	Ch: 50m to 100m			1	50.00		14.10		707.55		
C	Ch: 100m to 150m			1	50.00		9.27	_	705.00		
C	Ch: 150m to 200m			1	50.00		7.40		463.50		
	h: 200m to 250m			1	50.00		4.22		370.00		
C	h: 250m to 300m			1	50.00		2.67		211.00		
C	h: 300m to 350m			1	50.00		5.60	_	133.50		10
	h: 350m to 400m	1		1	50.00		12.03	_	280.00		
	h: 400m to 450m			1	50.00		12.90	_	601.50		
	h: 450m to 500m			1	50.00	_	12.85	-	645.00		
Cl	n: 500m to 550m			1	50.00		12.85	-	642.50		
Ch	a: 550m to 600m			1	50.00		13.62		642.50		
	: 600m to 650m				50.00		21.00	_	681.00		
	: 650m to 700m				50.00		23.23		1050.00		
	: 700m to 750m				50.00		18.07		161.50		
Ch	: 750m to 800m				50.00		3.63		903.50		
Ch	: 800m to 850m				50.00	_	2.85		681.50		
Ch	850m to 900m			-	50.00		2.85		642.50		
Ch:	900m to 950m				50.00	_	2.85		642.50		
Ch:	950m to 1000m			_	0.00		2.85		642.50		
Ch:	1000m to 1050m				0.00		2.85		342.50		
h:	1050m to 1100m				0.00		2.85		342.50		1
Ch:	1100m to 1150m				0.00		2.85		42.50		
Ch;	1150m to 1200m		1		0.00		2.85		42.50		
Ch:	1200m to 1275m		1		0.00		2.85		42.50		
h:	1275m to 1300m		1		5.00		.90		42.50		
h:	1300m to 1350m		1	+	5.00	_	.90		67.50		
h: 1	1350m to 1400m		1		.00		.85		22.50		
b: 1	1400m to 1450m		1		.00	-	.94		12.50		
b · 1	450m to 1475m		1	_	.00		62		17.00		
·	Length		1		.00				31.00		
E.	Length		1	45.		_	86		6.50		
			1	465.		1.3		5	8.50	10	
au	ct Cobble Stone Area	_	1	-		8.0		37	2.00		
_		M19	1	15.	18	1.6			8.29		
_			1	32.		1.6			4.34		
_			1	15.5		1.6			1.57		
_			1	15.		1.6			1.40		
	The state of the s	-	1	15.3		1.6			.26		
_		1	-	10.0	-	1.6	4		.59	()	
		-	-		-			17634			
							Say				

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Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
-	Ch: 100m to 150m	1	1	50.00	7.40		370.00		III Its.
	Ch: 150m to 200m		1	50.00	4.22		211.00		
	Ch: 200m to 250m		1	50.00	2.67		133.50		
	Ch: 250m to 300m		1	50.00	5.60		280.00		
_	Ch: 300m to 350m		1	50.00	12.03		601.50		
	Ch: 350m to 400m Ch: 400m to 450m		1	50.00	12.90		645.00		
-	Ch: 450m to 500m		1	50.00	12.85		642.50		
	Ch: 500m to 550m	-	1	50.00	12.85		642.50		
	Ch: 550m to 600m		1	50.00	13.62		681.00		
1	Ch: 600m to 650m	-	1	50.00	21.00		1050.00		
	Ch: 650m to 700m	_	1	50.00	23.23		1161.50		
y de la company	Ch: 700m to 750m	_	1	50.00	18.07		903.50	:	
	Ch: 750m to 800m	+	1	50.00	13.63		681.50	:	
	Ch: 800m to 850m	+	1	50.00	12.85		642.50		
	Ch: 850m to 900m	-	1	50.00	12.85		642.50		
	Ch: 900m to 950m	-	1	50.00	12.85		642.50		10
	Ch: 950m to 1000m	_	1	50.00	12.85		642.50	1	
	Ch: 1000m to 1050m	+	1	50.00	12.85		642.50	:	6'
	Ch: 1050m to 1100m		1	50.00	12.85		642.50		
	Ch: 1100m to 1150m		1	50.00	12.85		642.50		
	Ch: 1150m to 1200m		1	50.00	12.85		642.50		
-			1	50.00	12.85		642.50		-
	Ch: 1200m to 1275m Ch: 1275m to 1300m		1	75.00	12.90		967.50		
	Ch: 1276m to 1300m Ch: 1300m to 1350m	1	1	25.00	12.90		322.50		
-	Ch: 1350m to 1400m		1	50.00	8.85		. 442.50		
	Ch: 1400m to 1450m		1	50.00	8.94		447.00		
	Ch: 1450m to 1475m	+	1	50.00	3.62		181.00		
	45m Length	-	1	25.00	1.86		46.50		
_	465m Length		1	45.00	1.30		58.50		
	Deduct Cobble Stone Area	-	1	465.00	0.80		372.00		
	Total State State Area		1	5.18	1.60		-8.29		
		-	1	15.21	1.60		-24.34		
		-	1	32.23	1.60		-51.57		
		\vdash	1	15.25	1.60		-24.40		
			1	15.16	1.60		-24.26		
			1	15.37	1.60		-24.59		
-							17634.56		
09 E	Providing and leving 11						17635.00	12.72	224317.20
sa a ta ta CC 20 U se of th	Providing and laying bituminous concrete 40mm thick with hotmix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hotmix to work site, laying with a paver finisher to the required grade. level and lignment, rolling with smooth wheeled, vibratory and andem rollers to achieve the desired compaction in all espects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-015. Ising 120 TPH capacity Asphalt batchmix plant with ensor paver grading II (30-45mm) with 5.4% fmodified bituminous binder consisting of 4.97% of VG-0 bitumen (60/70 grade) and 0.43% of plastomeric nermoplastics (waste plastic)								224017.20
(I	No.21.78.8, Issue Rate as on 01.01.2019) astern Side h: 0m to 50m								
	ti. Um to oum		1	50.00		0.04	28.20		
CI		-	-			0 0 1			
CI	h: 50m to 100m		1	50.00		0.04	18.54		
CI	h: 50m to 100m h: 100m to 150m		1	50.00	7.40	0.04	18.54		
CI CI CI	h: 50m to 100m h: 100m to 150m h: 150m to 200m		1	50.00 50.00	7.40	0.04			
CI CI CI CI	h: 50m to 100m h: 100m to 150m h: 150m to 200m h: 200m to 250m		1 1 1	50.00 50.00 50.00	7.40 4.22 2.67	0.04	14.80		
CI CI CI CI CI	h: 50m to 100m h: 100m to 150m h: 150m to 200m h: 200m to 250m h: 250m to 300m		1 1 1	50.00 50.00 50.00 50.00	7.40 (4.22 (2.67 (5.60 (0.04 0.04 0.04 0.04	14.80 8.44 5.34 11.20		
CI CI CI CI CI CI	h: 50m to 100m h: 100m to 150m h: 150m to 200m h: 200m to 250m		1 1 1 1 1	50.00 50.00 50.00	7.40 (4.22 (2.67 (5.60 (12.03 (0.04	14.80 8.44 5.34		



l. o.	Description of work	Unit	No.	Length	Breadth inm	Depth inm	Quantity	Rate in Rs	
	Ch: 450m to 500m			1 50.00			25.70		in Rs.
	Ch: 500m to 550m			1 50.00	100000000000000000000000000000000000000		27.24		
	Ch: 550m to 600m			1 50.00		0.04	42.00	-	
	Ch: 600m to 650m			50.00	23.23	0.04		1	
	Ch: 650m to 700m		-	50.00	18.07	0.04	46.46		
	Ch: 700m to 750m		-	50.00	13.63		36.14	-	
-	Ch: 750m to 800m		+	50.00	12.85	0.04	27.26	-	
	Ch: 800m to 850m	1		50.00	12.85	0.04	25.70 25.70		
	Ch: 850m to 900m			50.00	12.85	0.04	25.70		-
	Ch: 900m to 950m				12.85	0.04	25.70		
	Ch: 950m to 1000m		1		12.85	0.04	25.70		
	Ch: 1000m to 1050m		1		12.85	0.04			
	Ch: 1050m to 1100m	_	1		12.85		25.70		
	Ch: 1100m to 1150m	_	1		12.85	0.04	25.70		
	Ch: 1150m to 1200m	1	1	50.00		0.04	25.70		
	Ch: 1200m to 1275m		1	75.00	12.85	0.04	25.70	1	
	Ch: 1275m to 1300m	+	1			0.04	38.70		9
	Ch: 1300m to 1350m		1	25.00	12.90	0.04	12.90		
$\overline{}$	Ch: 1350m to 1400m	+	- 1	50.00	8.85	0.04	17.70		
$\overline{}$	Ch: 1400m to 1450m	-	- 1	50.00	8.94	0.04	17.88		
_	Ch: 1450m to 1475m	-	1	50.00	3.62	0.04	7.24		
	45m Length		1	25.00	1.86	0.04	1.86		
_	465m Length		1	45.00	1.30	0.04	2.34		
_			1	465.00	0.80	0.04	14.88		_
- 1	Deduct Cobble Stone Area		1	5.18	1.60	0.04	-0.33		
+			1	15.21	1.60	0.04	-0.97		
+			1	32.23	1.60	0.04	-2.06		
+			1	15.25	1.60	0.04	-0.98	7	
+			1	15.16	1.60	0.04	-0.97		
+			1	15.37	1.60	0.04	-0.98		-
+							705.38		
10	Second Prince of the Control of the					Say		8036.9	2 5674065
g te h en av	Green Pigmented Asphalt: Providing and laying green bigment with resign binder to concrete or asphalt surface by mechanical method, it comprises of a pecially formulated binder system with a colour coated lass aggregate manufactured using a proprietary echnology, provides a tactile warning system with a high friction, non - fading, consistent colour suface, invironment friendly, sub angular, non-porous gives werage service life of 5 years, installed effectively ithin 5-8 hours resulting imminimal traffic disruption. The finished surface to be level, uniform and free from reaks and holes, transporting the material, with all	Sqm					•		
B	ead & lift, including cost of all materials, labour, OM of machineries compete as per specifications. BMP Approved Rate or Cycle Track								
	ast Ch: 205m to Ch: 1475m						· ·		
E-	18t Lin' 205m to Ch: 1475m		1	1270.00					



"ಮಾಹಿತಿ ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಸಲಾಗಿದೆ"

l. o.	Description of work	Unit		inm	Breadth inm	Depth inm	Quantity	Rate in Rs.	Amoun in Rs.
	Strengthening of existing Carriageway (Camber		tion,	laying of	Overlay)				1
11	Milling the bituminous pavement surface upto a dept of 55mm using milling machine, tomake a uniform surface without disturbing the base, cleaning themille surface, including cost of all labour charges and hir charges ofmachineries, etc. complete, including stacking the milled material on the sides of road.	n d e							
	(Pg.No. 151, I.No. 19.102 of PW, P & IWTD SR 2018 -	19)							-
_	Western Side								
_	Ch: 0m to 50m Ch: 50m to 100m	-	1	50.00	16.65		832.50		
_	Ch: 100m to 150m	-	1	50.00	19.25		002,00		
-	Ch: 150m to 200m	-	1	50.00	30.83		1541.50		
-	Ch: 200m to 250m	-	1	50.00	36.39		1819.50		
-	Ch: 250m to 300m	-	1	50.00	35.16		1758.00	-	
-	Ch: 300m to 350m	-	1	50.00	33.07		1653.50		
-	Ch: 350m to 400m		1	50.00	20.38		1019.00		
_	Ch: 400m to 450m	-	1	50.00	15.12		756.00		-
-	Control of the Control of Control	-	1	50.00	12,90		645.00		
-	Ch: 450m to 500m	-	1	50.00	13.32	**	666.00		
_	Ch: 500m to 550m		1	50.00	17.63		881.50		
	Ch: 550m to 600m		1	50.00	0.30		15.00		
_	Ch: 600m to 650m		1	50.00	0.30		. 15.00		
	Ch: 650m to 700m		1	50.00	15.47	••	773.50		
	Ch: 700m to 750m		1	50.00	12.90		645.00		
_	Ch: 750m to 800m		1	50.00	12.90		645.00		
-	Ch: 800m to 850m		1	50.00	12.90		645.00	•	
_	Ch: 850m to 900m		1	50.00	12.90		645.00		
-	Ch: 900m to 950m Ch: 950m to 1000m		1	50.00	12.90		645.00		
-			1	50.00	12.85		642.50		
-	Ch. 1000m to 1000m		1	50.00	12.60		630.00		
-	Ch: 1050m to 1100m Ch: 1100m to 1150m		1	50.00	11.79		589.50		
-			1	50.00	12.02		601.00		
-	Ch: 1150m to 1200m		1	50.00	12.15		607.50		1
-	Ch: 1200m to 1250m		1	50.00	12.90		645.00		
-	Ch: 1250m to 1300m		1	50.00	12.90		645.00		
-	Ch: 1300m to 1350m		1	50.00	12.90		645.00		
-	Ch: 1350m to 1400m		1	50.00	19.50		975.00		
_	Ch: 1400m to 1450m		1	50.00	19.50		975.00		
	Ch: 1450m to 1475m		1	25.00	19.50		487.50		
_	Eastern Side				-				
_	Ch: 1300m to 1350m		1	50.00	0.30		15.00		Little
$\overline{}$	Ch: 1350m to 1400m		1	50.00	0.30		15.00		
_	Ch: 1400m to 1450m		1	50.00	0.30		15.00	10	
\rightarrow	Ch: 1450m to 1475m Deduct Cobble Stone Area		1	25.00	0.30		7.50	0.55	
+	Deduct Cobble Stone Area		1	55.00	1.60		-88.00		
+			1	20.10	1.60		-32.16		
+			1	63.20	1.60		-101.12		
+			1	22.60	1.60		-36.16		
+			1	21.50	1.60		-34.40		
+			1	21.70	1.60		-34.72		
+							23732.44		
4						Say	23732.00	74.20	1760914
	KSRRB 500-9: Providing and applying Tack Coat using 30/100 Grade Bitumen (VG10) on granular base such as WBM surfaces hot bitumen primed at 4kg per 10Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM Complete as per specifications. Clause 503 of MORTH V revision	Sqm				# .		3 - 2	
1	I.No.21.9, Issue Rate as on 01 - 01 - 19)								
_	Western Side						0 23010 642.50	อกฉี"	
_	Ch: 0m to 50m		1		-14-24	, ಅಡಿಯ	2000		



N	O. Ch: 50m to 100m		Onit	No.	in m	Breadth in m	in m	Quantity	Rate in Rs.	Amour in Rs.
_	Ch: 100m to 150m			1		12.00		642.50		III Its.
	Ch: 150m to 200m	-		1		12.00		642.50		
	Ch: 200m to 250m			1		12.00		642.50		_
	Ch: 250m to 300m		-	1	30.00	12.00		645.00		
_	Ch: 300m to 350m			1	50.00	12.90		645.00		
-	Ch: 350m to 400m			1		8.85		442.50		
-	Ch: 400m to 450m	-	_	1	50.00	8.94		447.00		-
-	Ch: 450m to 500m	-		1	50.00	3.62		181.00		1
-	Ch: 500m to 550m	-	-	1	50.00	1.86		93.00		1
-	Ch: 550m to 600m	-	-	1	50.00	1.30		65.00		
-	Ch: 600m to 650m		-	1	50.00	0.80		40.00		
-	Ch: 650m to 700m		-	1	50.00	1.60		80.00		
-	Ch: 700m to 750m			1	50.00	1.60		80.00	10.0	
-	Ch: 750m to 800m		-	1	50.00	1.60		80.00		
-	Ch: 800m to 850m	-	_	1		1.60		80.00		
	Ch: 850m to 900m		_	-	50.00	1.60		80.00		
	Ch: 900m to 950m	_	-	1	50.00	1.60		80.00		
	Ch: 950m to 1000m	_	-	1	50.00	0.00		0.00		
	Ch: 1000m to 1050m	-	-	1	50.00	0.00	3. V	0.00		
	Ch: 1050m to 1100m	_	-	1	50.00	0.00		0.00		
	Ch: 1100m to 1150m	-		1	50.00	0.00		0.00	-	
	Ch: 1150m to 1200m	_	_	1	50.00	0.00		0.00	-	
	Ch: 1200m to 1250m	-	-	1	50.00	0.00		0.00		
	Ch: 1250m to 1300m			1	50.00	14.10		705.00	-	
	Ch: 1300m to 1350m	-		1	50.00	9.27	_	463.50		
	Ch: 1350m to 1400m			1	50.00	7.40	-	370.00		
	Ch: 1400m to 1450m			1	50.00	4.22	_	211.00		
	Ch: 1450m to 1475m	_		1	50.00	2.67		133.50		
	Eastern Side	-		1	25.00	5.60		140.00	-	
	Ch: 1300m to 1350m	_	_				_	0.00		
	Ch: 1350m to 1400m				50.00	12.90		645.00	-	7 7 4 4
	Ch: 1400m to 1450m			1	50.00	12.85		642.50	_	
1	Ch: 1450m to 1475m	_		1	50.00	12.85		642.50		
	Deduct Cobble Stone Area	_		_	25.00	13.62		340.50	-	
		-	-	1 (50.00	1.60		80.00	_	
		-			50.00	1.60		80.00	_	
				1 5	0.00	1.60		80.00	-	
				1 5	0.00	1.60	-			
				1 5	0.00	1.60	·	80.00		
C	cross Roads	1		1 5	0.00	1.60		80.00		- fi
+	1000 Itolaus			_	0.00	12.50	-	80.00		
F	or Podesti G			-	0.00	37.00		00.00		- 1
+	or Pedestrian Crossing		1	1		37.00	11	10.00		1
+			4	5	3.00	1.50				
+			2		.00	1.50		48.00		
+			2		.00	1.50		33.00		
K	SRRB - MEOO 12 D			-	.00	1.50		27.00		
bit	SRRB - M500-17: Providing and laying dense graded	Cum			_		1460	0.00 2	1.2 3	09520.00
	macadam using crushed aggregates	4				-		1 1		-
bit	uminous binder and transporting the					1	1	1 3	- 1	. 1
	an one, laying to the required and de l					1	1		1	.
						1		2 - 1 - 1	*	
	Toners to achieve the decired com-		- 1			- 1	1	1 :	1	
	1111 table but - 10 complete in all respect	- 1	- 1		1	1	1	f	1	
1	specifications.		- 1			- 1		1.		
MO	RTH Specificatin No. 507.				1	1	1			
Usi	ng 120 TPH capacity Asphalt batchmix plant with					1		1		1
Sen	sor paver Gr -11 (50mm to 75mm) with 45 of tro not								1.	
2100	imen							17		
	0.21.17.2, Issue Rate as on 01 - 01 - 19) Camber Correction				-					
(I.IV	Lambon Councette								-	-
r'or					1	-				
20%	of Existing Area		1	1	746.40	0.125	. 593.			

(0xh)

	Description of work		No.	inm	Breadth inm	inm	Quantity	Rate	Amount
_	The state of the s		2	8.00			10.80	in Rs.	in Rs.
-			1	11.00			20.00		
_			1	9.00	3.00				
		0.5	4	8.00	1.50	0.26			-
		0.5	2	11.00	2100	0.26			
		0.5	2	9.00	1.50	0.26	3.51		
		-	-				631.64		
7.14	KSRRB 500-7: Providing and applying tack coat usin 80 / 100 grade bitumen (VG 10) on the prepared blac topped surfaces at 2.5kg per 10Sqm, heating bitume in boiler fitted with spray set (excluding cleaning croad surface) including cost of all materials, labour HOM complete as per specifications. Clause 503 of MORTH V revision (I.No.21.7, Issue Rate as on 01.01.2019)	n n				Say	632.0	7049.00	4454968.
	Quty Same asmilling			-			2		
	Cross Roads	-	-	-			23732.00		
			8		12.50		3000.00		
	For Pedestrian Crossing		1	30.00	37.00		1110.00		
			4	8.00					
			2	11.00	1.50		48.00		
		\vdash	2	9.00	1.50		33.00		
-	D		_	5.00	1.50		27.00		2 10
15	Providing and laying Bituminous concrete 40mm thick with hotmix plant, using crushed aggregates of	Cum					27950.00	12.72	355524.0
. 2	respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53- 2015.							- 1	
r	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plants.								
r 3 t	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of nodified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic)								2
t (Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019)								2
t O	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side								
t C	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m		1	50.00	16.65	0.04	33.30		· · · · · · · · · · · · · · · · · · ·
t C C	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side		1	50.00	19.25	0.04	33.30 38.50		- /
t C C C	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side th: 0m to 50m th: 50m to 100m		1	50.00 50.00	19.25 30.83	0.04 0.04			
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 150m to 150m Ch: 150m to 200m Ch: 150m to 200m Ch: 200m to 250m		1 1 1	50.00 50.00 50.00	19.25 30.83 36.39	0.04 0.04 0.04	38.50		· /
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 150m to 200m Ch: 150m to 200m Ch: 250m to 300m		1 1 1	50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16	0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32		· · · · · · · · · · · · · · · · · · ·
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-80 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: Om to 50m Ch: 50m to 100m Ch: 150m to 200m Ch: 250m to 250m Ch: 250m to 300m Ch: 250m to 300m Ch: 300m to 350m		1 1 1	50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07	0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14		· · · · · · · · · · · · · · · · · · ·
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 150m to 200m Ch: 150m to 250m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m		1 1 1 1	50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38	0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76		
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 100m to 250m Ch: 250m to 300m Ch: 350m to 350m Ch: 350m to 400m Ch: 350m to 400m Ch: 350m to 400m Ch: 400m to 450m		1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12	0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24		
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 350m to 300m Ch: 350m to 400m Ch: 350m to 400m Ch: 450m to 500m		1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24		
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 250m to 200m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 450m to 550m		1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80		
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 350m to 350m Ch: 350m to 400m Ch: 350m to 450m Ch: 350m to 550m Ch: 550m to 550m Ch: 550m to 550m Ch: 550m to 550m		1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64		
	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 250m to 200m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 450m to 550m		1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 (0.30	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26		
t (O C C C C C C C C C C C C C C C C C C	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 350m to 550m Ch: 550m to 550m Ch: 550m to 550m Ch: 550m to 550m Ch: 550m to 600m Ch: 550m to 600m Ch: 550m to 650m		1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 (15.47	0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94		
COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side The Om to 50m The 50m to 100m The 100m to 150m The 250m to 250m The 250m to 300m The 350m to 400m The 350m to 400m The 450m to 550m The 550m to 550m The 550m to 600m The 550m to 600m The 550m to 600m The 650m to 700m The 650m to 750m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 15.47 12.90	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80		
COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side The Om to 50m The 100m to 150m The 100m to 250m The 250m to 300m The 350m to 300m The 350m to 400m The 350m to 450m The 350m to 550m The 350m to 550m The 350m to 550m The 350m to 550m The 350m to 600m The 350m to 650m The 350m to 700m The 350m to 750m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 0.30 15.47 12.90 12.90 0	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80		
Ch Ch	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 350m to 550m Ch: 550m to 550m Ch: 550m to 550m Ch: 500m to 550m Ch: 550m to 600m Ch: 550m to 600m Ch: 550m to 650m Ch: 550m to 800m Ch: 550m to 800m Ch: 550m to 800m Ch: 550m to 850m Ch: 550m to 850m Ch: 500m to 850m Ch: 550m to 900m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 15.47 12.90 0 12.90 0 0 12.90 0	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80 25.80		
Ch Ch	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 550m Ch: 550m to 600m Ch: 550m to 650m Ch: 550m to 650m Ch: 550m to 700m Ch: 750m to 800m Ch: 750m to 800m Ch: 750m to 900m Ch: 750m to 900m Ch: 750m to 900m Ch: 750m to 900m Ch: 750m to 950m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 0.547 12.90 0.12.90	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80 25.80 25.80		
COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 350m to 550m Ch: 550m to 600m Ch: 550m to 600m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 750m Ch: 550m to 900m Ch: 750m to 850m Ch: 550m to 950m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 0.15.47 12.90 12.90 0 12.90 0 12.90 0 12.90 0 0 12.90 0 0	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80 25.80 25.80 25.80		
CO C	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 550m Ch: 550m to 600m Ch: 550m to 600m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 750m Ch: 550m to 750m Ch: 550m to 900m Ch: 550m to 950m Ch: 550m to 950m Ch: 550m to 950m Ch: 550m to 950m Ch: 550m to 1000m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 0.547 12.90 0.12.90	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80 25.80 25.80 25.80 25.80 25.80		
Ch	Using 120 TPH capacity Asphalt batchmix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric hermoplastics (waste plastic) I.No.21.78.8 Issue Rate as on 01.01.2019) Vestern Side Ch: 0m to 50m Ch: 50m to 100m Ch: 100m to 150m Ch: 150m to 200m Ch: 250m to 300m Ch: 250m to 300m Ch: 350m to 400m Ch: 350m to 450m Ch: 350m to 550m Ch: 550m to 600m Ch: 550m to 600m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 700m Ch: 550m to 750m Ch: 550m to 900m Ch: 750m to 850m Ch: 550m to 950m		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00	19.25 30.83 36.39 35.16 33.07 20.38 15.12 12.90 13.32 17.63 0.30 0.30 0.30 0.30 15.47 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 12.90 0 0 12.90 0 0 12.90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.04 0.04	38.50 61.66 72.78 70.32 66.14 40.76 30.24 25.80 26.64 35.26 0.60 0.60 30.94 25.80 25.80 25.80 25.80 25.80		



SI. No.	Description of work	Unit	No.	Length	Breadth inm	Depth	Quantity	Rate in Rs.	Amount in Rs.
	Ch: 1150m to 1200m			50.00			24.3		in Ks.
	Ch: 1200m to 1250m			50.00			- 1.0	_	
	Ch: 1250m to 1300m			50.00					_
	Ch: 1300m to 1350m			-		0.04			
	Ch: 1350m to 1400m				19.50	0.04	=0.0	220	-
N. TE	Ch: 1400m to 1450m	1		00.00	19.50	0.04	39.0		
	Ch: 1450m to 1475m	+	1	00100			39.0		
	Eastern Side	+-	+	20.00	19.50	0.04	19.5	0	
	Ch: 1300m to 1350m	-	1	50.00	0.00				
	Ch: 1350m to 1400m	_	1		0.30	0.04	0.60)	
	Ch: 1400m to 1450m	-	-		0.30	0.04	0.60		
	Ch: 1450m to 1475m	-	1	50.00	0.30	0.04	0.60		
	Deduct Cobble Stone Area	+	-		0.30	0.04	0.30		
		+	1		1.60	0.04	-3.52		
		-	1	20.10	1.60	0.04	-1.29		
		-	1	63.20	1.60	0.04	-4.04		
		-	1	22.60	1.60	0.04	-1.45		
			1	21.50	1.60	0.04	-1.38		
_	Cross Roads		1	21.70	1.60	0.04	-1.39		
	Closs Maus		8	30.00	12.50	0.04	120.00		100
	E- D 1 11 G		1	30.00	37.00	0.04	44.40		
	For Pedestrian Crossing		,						-
			4	8.00	1.50	0.04	1.92	T.	
_			2	11.00	1.50	0.04	1.32		-
			2	9.00	1.50	0.04			-
				0.00	1.00	0.04	1.08		
			-			_	1118.02		
16	KSRRB 300 - 50: Scarifying bituminous course 50mm to	0	-			Say	1118.00	8036.92	8985276.
	disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 (P. No.146 I No 19.56 of PW, P & IWTD S.R 2018 - 19)				- '	- 1			
((39*1.06+19*1.3*2+57)=150.34								
1	For Pedestrian Crossing		_						
	Junction								
-)		2	8.00	3.00		48.00		
-			1	11.00	3.00		33.00		
-			1	9.00	3.00		27.00		
-							108.00	-	
						_	108.00	150.04	70000/
7 K	XSRB 14.6-1: Providing and laying heavy duty S	Sam					100.00	150.34	16236.7
111	nterlock concrete paver block 75mm thick	.			1	1		:	
3	00mmX300mm, using cement and course sand for	-		- 1	1			5	
In	nanufacture of blocks of approved size, shape and				1			3	
CC	plour with aminimum compressive strength of 281 kg						1		
a	er Sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons	- 1	1						
cc	empaction force thereby forcing part of sand	- 1			1				
lu i	nderneath to come up in between joints final	- 1			- 1			1 1.	
co	impaction of paver surface joints into its final level								
113	cluding cost of materials, labour and HOM					1			
of	machineries complete as per specifications.			1				1.	
Sr	Decification No. KBS								
(I	P. No.103 I No 14.7 of PW, P & IWTD S.R 2018 - 19)					\dashv		1.	
Fc	or Pedestrian Crossing	_							
	ty Same as Item No-2.02 ·		-						
1		_					108.00		
							108.00 1	176.60	127072.80

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Sl. No.	Description of work	Unit	No.	Length	Breadth inm	Depth	Quantity		Amount
7.18	M25 with OPC @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7Cum and fine aggregates @0.47 Cum, with superplasticiser @31ts Conforming to IS: 9103-1999 Reaffirmed - 2008 including cost of materials, labour, HOM curing, form work, scaffolding and centering complete as per specifications. i)upto 5m height					ııım		in Rs.	in Rs.
-	(P.No.227, I.No.28.7.12 of PW, P& IWTD SR 2018 - 19)							*	
	For Pedestrian Crossing								
			4	8.00	0.30	0.10	0.96		
			2	11.00	0.30	0.10	0.66		
			2	9.00	0.30	0.10	0.54		
			_				2.16		
		_	-				2.16	5640.26	12182.96
	Green Pigmented Asphalt: Providing and laying green pigment with resign binder to concrete or asphalt surface bymechanicalmethod, it comprises of a specially formulated binder system with a colour coated glass aggregatemanufactured using a proprietary technology, provides a tactile warning system with a high friction, non - fading, consistent colour suface, environment friendly, sub angular, non-porous gives average service life of 5 years, installed effectively within 5-8 hours resulting inminimal traffic disruption. The finished surface to be level, uniform and free from streaks and holes, transporting the material, with all Lead & lift, including cost of all materials, labour, HOM ofmachineries compete as per specifications.	Sqm							
	BBMP Approved Rate	-	-	-				100	145-64
	For Cycle Track								
- 1	West Ch: 225m to Ch: 1475m		1	1250	2.20	_	2750	-	
1							2750	-	
									Acres de la constitución de la c
-						Say	2750	1500	4125000.00



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Sl. No.	Description of work	Unit	No.	Length		Depth	Quantity	Rate	Amour
3.00	Construction of Docking Stations			inm	inm	inm		in Rs.	in Rs.
.01	KSPRR M200 14 Francis							i rete	
.01	KSRRB - M300 - 14: Excavation for road work in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1km and complete as per specifications. MORTH Specification No. 301								
	(P. No.143, I.No.19.14 of PW, P&IWTD SR 2018 - 19)								
	Area							11.1	
77.1			4		24.40	0.56	54.66		
30			2	4	13.90	0.56	49.17		
	Construction of granular sub-base Grading-V as Sub-base and drainage layer by Providing coarse graded crushed stone aggregate of granite / trap / basaltmaterial, mixing in amechanicalmix plant at OMC, Carriage of mixedmaterial to work site, spreading in uniform layers withmotor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per Specifications.				7.		103.82	43.46	45
	Clause 401 of MORTH V Revision (P.No.153, I.No.20.5 of PW, P&IWTD SR 2018 · 19)						2		- 4
	(2 1.10.100, 1.110.20.5 of FW, F&IWTD SR 2018 - 19)								-
		-	2		1.40	0.20	19.52		
	Carl State Charles		2	48	3.90	0.20	17.56		
3 1	KSRRB - M400 - 17: Providing, laying, spreading and compacting crushed stone aggregates of granite / trap /	Cum			-		37.08	1994.92	7397
t s c	pasalt to Wetmixmacadam specifications including premixing the material with water at OMC nmechanicalmix plant carriage of mixedmaterials by ipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and ompacting with vibratory roller to achieve the desired lensity complete as per specifications.					1			
(1	P.No.155, I.No.20.18 of PW, P&IWTD SR 2018 - 19)	-	+						
-			4	24.40		0.25	24.40		
+			2	43.	90	0.25	21.95	-	
K	SRB 14.6-1: Providing and laying heavy duty So				I IA I		46.35	2001.28	92759
fo co pe ar co ur co inc	OmmX300mm, using cement and course sand rmanufacture of blocks of approved size, shape and blour with aminimum compressive strength of 281 kg or Sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons ampaction force thereby forcing part of sand aderneath to come up in between joints, final mpaction of paver surface joints into its final level, cluding cost of materials, labour and HOM machineries complete as per specifications.	Įm į							
(P.	No.103, I.No.14.6 of PW, P&IWTD SR 2018 - 19)					21.25	* *****	_	
-			4	24.4	0		97.60		
-		1	2	43.9	0		87.80		
Pro	oviding and fixing Precast solid concrete kerb No							116.18 2	06939.
1:3 Siz	onesmade out of CC 1:2:4 and finished with CM plastering and finishing cutting etc., complete. to 450 x 150 x 500mm No.27, I.No.5.29.2 in PW, P&IWTD SR 2018 - 19)	S.							
		-	4	27.00		-	100.00		
				48.00			96.00		-
1						Say		07.10	05001.0
_	A N M					Say	204.00 4	67.46	95361.8

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COSS

l. lo.	Description of work	Un	it N	o.	The second second	Breadth		h Quantit	4.4	Amou
.00	Providing Traffic Signs Languages B			Contraction of	inm	linm	inm		in Rs.	in Rs.
.01	Providing Traffic Signs, Lanemarking, Pec KSRRB - M800 - 13: Road marking with Hot Appl	lestri	an C	ros	sing, S	tuds, etc			1	
.01	Thorms plastic Command with B 7	ied Sq	m							
	Thermo plastic Compound with Reflectrising Gle	ass							-	
	Beads on Bituminous surface/ Concrete Surfa	ce:								
	Providing and laying of hot applied thermoplas	tic	- 1							
	compound 2.5mm thick including reflectorising gla	100							. 1	
	beads at 250gms per Sqm area, thickness of 2.5mm	133				1			1	1
	ordering of a few days area, thickness of 2.5mm	13	- 1			1	1	1		
	exclusive of surface applied glass beads as per IRC:	35				1	1			
	Standards specified. The finished surface to be lev	el,				1	1			
	uniform and free from streaks and holes complete	as	1				1	17		1
	per specifications.		- 1				1			1
	MORTH Specification No. 803.		- 1						1	1
	(P.No.182, I.No.24.15 in PW, P&IWTD SR 2018 - 19)	_		-						_
-	(1.170.102, 1.170.24.15 IN PW, P&IWID SR 2018 - 19)									
	a) Broken Lane line									
	From Ch: 0m to Ch: 1475m			2	738.00	0.1	5	- 221.4	10	
	b) Edgemarking	_	-	-	•		-			
	From Ch: 0m to Ch: 1475m	-	-	2	1477.00	0.11		-		
		-	_	- 2	1477.00	0.18	Sa	у 443.1	0	
17	c) Pedestrian Crossing			\neg			-	-	-	-
	At Ch: 225m		_	1	18.50	3.00				
	At Ch: 550m and Ch: 600m		-	1				55.5		
	d) Stop Line	-	+-	1	16.75	3.00		50.2	5	
\rightarrow	At Cauvery Junction		-							
-	At Cauvery Junction			1	19.63	0.20		- 3.9	3	
-				1	21.76	0.20		- 4.3	5	-
_1	At Ch: 225m			1	15.20	0.20		- 3.0		-
			_	-						
	Busbay	+-	+	1	104.00	0.20	-	20.8	0	
_				1	10	0.00		10.00		
	Cycle Track			6	5	.00		30.00		_
	Lane Arrows	_	1	7						-
		-	-		- 0	.00		35.00		
7	a) Broken Lane line	+	_	-				877.37		
	From Ch: 0m to Ch: 1475m	+	-	-						
	b) Edgemarking	-	_	2	738.00	0.15		221.40		
1	From Ch: 0m to Ch: 1475m			2	1477.00	0.15	Sav	443.10		
1	No.		-	+					,	
	e) Pedestrian Crossing									1
_	At Ch: 225m			1	18.50	3.00		===0		
14	At Ch: 550m and Ch: 600m	1	1	1				55.50		
10	l) Stop Line	-	-	1	16.75	3.00		50.25		
	At Cauvery Junction	-	_	-						
1	at Cauvery Junction			1	19.63	0.20		3.93		
+				1	21.76	0.20				
P	at Ch: 225m			1	15.20	0.20		4.35		
		-	-	-				3.04		
T	Busbay	-		1	104.00	0.20		20.80		1
_				1	10.	00		10.00		
10	ycle Track			5	5.0	00		25.00		
				+				0.0016-0.006		
1				+-				837.37		
P	roviding and fixing of Potes and	2.		+			Say	1714.74	454.74	77975
1.	roviding and fixing of Retro-reflectorised cautionary,	Nos.								
l m	andatory, informatory sign as per IRC:67made of	1			1		- 1	- 1		
h	igh intensity grade sheeting vide Clasue 801.3, fixed				- 1		- 1			
O	ver aluminium sheeting, 1.5mm thick supported on				- 1		- 1	1	- 1	
a	mild steel angle iron post 75mm x 75mm x 6mm							1		
fi	rmly fixed to the ground bymeans of properly designed			1				27 2	100	
fo	undation withm15 grade cement conrete 45cm x 45cm					1	- 1			
x	60cm, 60cm below ground level as per approved			1			- 1		- 1	
d	rawing.			1					2	
	.No.180 of I.No.24.2.4, 24.2.3, 24.2.1, & 24.2.6 in PW	D P. TIT	mp c	I C	010 10					
60	00 X 800mm - Type XI	TOTA	צענו	T Z	018 - 19)				
	formatory sign boards			-						
	0 0 1 0	NL	20	1				20.00	4342.82	86856
		Nos.	2.12	-				*		
	ompulsory Cycle Track, No Parking,		35							
-	ırningmovement			-						
90	Omm Equilatoral triangle Trung VI	NY	. 35	-				35.00	3309.32	115826
D		Nos.		-					4	The second secon
	destrian crossing sign boards		10					10.00	3661.24	36612
·•0	0mm Octagon Stop Board- Type XI	Nos.				g man				
			_							
			7					7 001	5349.82	

Outs

o.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	TA
03	Supply and fixing of Retro Reflective Single Arrow	0	-	in m	in m	in m	Quantity	in Rs.	Amour
	Road Name Signboard of size 1600mm X 900mm								1
	made out of retro reflective sheeting conforming to Time			1			100	1	
	At standards of ASTMD 4956-09 and as per IRC 67								
	2012 for full back ground of blue colour and white				1				100
	letters and fixed over 4mm thick Alluminium								
	Compositematerial sheet havingminimum 0.5mm thick								-
	Aluminium skin on both sides with back side painted				(a)				
	grey colour and fixed over back support frame SS angle of 15mm X 20mm X 1.2mm, supported by 38mm OD	- 1							
	stainless steel pipe all round in 304 grade and 2 Nos. of	- 1							
	vertical posts of 50mm OD stainless steel pipe of 202					- 3		-	
- 1	grade fifthly fixing to the ground bymeans of properly	- 1				1			
- 1	designed foundation of size 450mm X 450mm V coo-	- 1		- 1					
- 1	in 1:1.5:3 ratio cement concrete. The hackground about			- 1	- 1	- 1			
	be blue in colour with letters and horder in white	- 1	- 1				× 2		
1	mem includes earthwork excavation, cost of all	- 1	- 1						
		- 1		1	- 1				
. 6	transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for								
	Typi-Al reto reflective chaoting					- 1			
s	sheetingmanufacturer and a certified convert				6 8 5	7		-	177
1^	oports from indipendent test laboratory conferming					. 1			
10	dause 6.7 of IRC 67-2012 including outdoor weather								
10	aposure report for the retro reflective shooting offernal								
10	man be submitted by the contractor for technical			- 1					
	ualifician tender.			- 1	- 1			-	
(1	P.No.190 of I.No.24.59, in PW, P&IWTD SR 2018 - 19)						0.1		0.00
X	ALACU OVER Amm				¥C				
side fra by and pip pro X 6 The bor exceeds 6.9	duminium Compositematerial sheet having minium 5mm thick Aluminium skin on both sides with back the painted grey colour and fixed over back support ame SS angle of 15mm X 20mm X 1.2mm, supported 38mm OD stainless steel pipe all round in 304 grade of 2 nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of operly designed foundation of size 450mm X 450mm 500mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and offer in white, the item includes earthwork avation, cost of all materials, loading, unloading, d, lift, transportation etc., complete, as per clause of IRC 67 - 2012 including outdoor weather exposure out for the retro reflective sheeting offered shall be						The second of th		
fra by and pip pro X 6 The bor excelleace 6.9 repe sub in the	duminium Compositematerial sheet having minium 5mm thick Aluminium skin on both sides with back the painted grey colour and fixed over back support ame SS angle of 15mm X 20mm X 1.2mm, supported 38mm OD stainless steel pipe all round in 304 grade d 2 nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of operly designed foundation of size 450mm X 450mm 500mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and other in white, the item includes earthwork avation, cost of all materials, loading, unloading, d, lift, transportation etc., complete, as per clause of IRC 67 - 2012 including outdoor weather exposure.						7.00 167	73201 6001	3 ³⁷ 17124.70
fra by and pip pro X 6 The bor excelleace 6.9 repe sub in the	duminium Compositematerial sheet having minium 5mm thick Aluminium skin on both sides with back the painted grey colour and fixed over back support ame SS angle of 15mm X 20mm X 1.2mm, supported 38mm OD stainless steel pipe all round in 304 grade d 2 nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of operly designed foundation of size 450mm X 450mm 500mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and other in white, the item includes earthwork avation, cost of all materials, loading, unloading, d, lift, transportation etc., complete as per clause of IRC 67 - 2012 including outdoor weather exposure out for the retro reflective sheeting offered shall be mitted by the contractor for technical qualification the tender.		77			- mon	7.00 16 も も る つ り	732nd en 1	2 ³⁷ 17124.70
fra by and pip pro X 6 The bor excelleace 6.9 repe sub in the	duminium Compositematerial sheet having minium 5mm thick Aluminium skin on both sides with back the painted grey colour and fixed over back support ame SS angle of 15mm X 20mm X 1.2mm, supported 38mm OD stainless steel pipe all round in 304 grade d 2 nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of operly designed foundation of size 450mm X 450mm 500mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and other in white, the item includes earthwork avation, cost of all materials, loading, unloading, d, lift, transportation etc., complete as per clause of IRC 67 - 2012 including outdoor weather exposure out for the retro reflective sheeting offered shall be mitted by the contractor for technical qualification the tender.		7		ಮಾಹಿತಿ ಹೆಕೆ	್ತು ಕಾಯ್ದೆ	7.00 163 92 の30	332nt en1	2 ⁹⁹ 17124.70
fra by and pip pro X 6 The bor excelleace 6.9 repe sub in the	duminium Compositematerial sheet having minium 5mm thick Aluminium skin on both sides with back the painted grey colour and fixed over back support ame SS angle of 15mm X 20mm X 1.2mm, supported 38mm OD stainless steel pipe all round in 304 grade d 2 nos of vertical posts of 50mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of operly designed foundation of size 450mm X 450mm 500mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and other in white, the item includes earthwork avation, cost of all materials, loading, unloading, d, lift, transportation etc., complete as per clause of IRC 67 - 2012 including outdoor weather exposure out for the retro reflective sheeting offered shall be mitted by the contractor for technical qualification the tender.		7		ಮಾಹಿತಿ ಹೆಕೆ	್ಕ ಕಾಯ್ದೆ	7.00 16; each	732nd em 1	377

31.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate	Amount
0.05	KSRRB - M800-35: Supply and installation of moulded			in m	in m	in m	- Canada	in Rs.	in Rs.
.00	Shank Raised Pavement markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels withmicro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of category A of MORTH Circluar No. RW/NH/33023/10-97, - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm.								
	100mm and 102mm and withminimum reflective area of 13Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm) from the body is to be aminimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, Without nails and using epoxy resin based adhesive as permanufacturer's recommendation and complete as directed by the engineer	.9					,		
	(P.No.189, I.No.24.41 in PW, P&IWTD SR 2018 - 19)	_	-						
1	From Ch: 0m to Ch: 1475m		2067	-				•	
		-	2007				2067	357.22	73837
	From Ch: 100m toCh: 230m		26			-	26		
	For median both sides		233			-	233		
	At Every 5m Spacing KSRRB - M800-43: Installation of a steel portable E			-	_	-	259	357.22	9251
p iii cc 2	ength fitted on a 'A' framemade with 45 x 45 x 5mm angle iron section, 1.5m in height, horizontal rail rainted (2 coats) with yellow and white stripes, 150mm in width at an angle of 45°, 'A frame painted with 2 coats of yellow paint, complete as per IRC: SP: 55 - 001 complete as per specifications. P.No.187, I.No.24.44 in PW, P&IWTD SR 2018 - 19)						<i>3</i> .	-	
		office of				-	1180	2639.40	3114492
of the continue of the wire defined from fixed 4000 fix	ASRRB · M800 · 15: Road Delineators: Supply & Natallation of Vertical Delineator having wide angle abe cornermicro prismatic nonmetallic reflective neeting Conforming to Type · XI of IRC: 67 · 2012 with white and Red colour combination and havingminimum retro reflective exposed area of 125Sqcm on top slots and 35Sqcm on bottom slots and no edges shall be aposed for tampering. This tubular delineator shall are a core and shell construction, shell shall bemade tough, high impact resistant, injection moulded, ermoplastic outer body and the inner core shell insist of power coated or paintedmild steel ofminimum ickness 1.0mm and core-shell structure shall be of eight not less than 800mm above the ground and doth not less than 800mm. Themetalic core of the lineator shall extend 300mm beyond the shell length of bottom for installing in the ground. The extended ration of themetallic core having suitable slots to be ed inm20 grade Cement Concrete of size 300 X 300 X 20mm with suitable anchoring rods for enhancing the p., As oer IRC: 75 Specifications.	OS.							
1	No.182 of I.No.24.19 in PW, P&IWTD SR 2018 - 19)								
P									
(P.)	om Ch-0.00m to Ch. 1475m	_							
(P.)	om Ch-0.00m to Ch- 1475m		30			-	30 30 1		



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Osts.

No.		Unit	No.	Length	125		Quantity		Amount
10.00	Tree Transplantation			TILLII	inm	inm		in Rs.	in Rs.
10.0	Transplantation and Treatement for the Trees coming in the widened portion of Carriageway as per directions of Engineer - in - charge	Each							
	BBMP Approved Rate		in the						
							. 61		
	- 1 AM 2 AM						61	19900.00	1213900.0
						T	otal Amour	at	1213900.0



अक्रकेड करें, कार्की स्थानित अवस्थान वर्षे

Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A.

Junction to Mehkri Circle) in Bengaluru City

Name of Work: Widening of Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

<u>Detailed Cost Estimate for Street Illumination</u>

PW, P&IWTD SR, Electrical Works 2019 - 20

Sl. No.	No.	Item No.	Description	Unit	Quantity	Rate in	Amount in
1.0			Wires and Cables		- 2	Rs.	Rs.
	1						
1.1	6	2.3.3	Wiring for Lighting / Power Circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper Wire with low conductor resistance single core wire in open or concealed system of wiring with specified IS: 694 conforming to the latest Amendments 2.5 Sqmm (from Pole Box to Light Fixture)	A CONTRACTOR OF THE PROPERTY O	5900.00	32.00	188800.00
2.0		-					
-			Luminaries / Light Fixtures and Accessories				
2.1	67		Supply of LED Streetlight Luminaire with Pressure Die Cast Aluminium Housing Body for Optimal Thermal Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser with Injection moulded Polycarbonate Material, delivering superior Light Output. Rate Life Burning hrs. 50000 hr. @ Lumen Maintenance of 70%, Maximum Light Intensity should be between 60 degrees and 70 degrees, CCT > 5500K, IP 66 Optical and Electrical Compartment and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9 with Mains, Surge Protection minimum 5KV along with Over Voltage / Overload, Short Circuit / Miss - Wiring Protection. Compatible for Pole Mounting with Outer Dia of 40mm to 50mm. Universal Voltage Driver to operate wide Voltage range from 100V to 270V 50 / 60 Hz Application. Compliance to IS: 10322 / IEC 60598, LM 79 and LM 80 adherence with RoHS UL approved MCPCB. Top access Street Light with Single Screw to ensure ease of maintenance at the Sight Site Location with minimised minimal Tools. LED Light Fixture with 150 Watts System Power consumption. LED Efficiency > 130 lm /w, nominal CRI > 75. Luminaire Manufacturer should have in house Facility accredited by NABL / CPRI and any Government certified Agency and Design and Development Facility certified by ISO 9001: 2008. Housing with Supplier Word Mark / Name shall be engraved / embossing on the Die Cast Housing / Body Part. Warranty of 2 Years against any Manufacturing Defect working under Standard Electrical Conditions as mentioned above should be given by LED Manufacturer and Cree / Nichia / Lumileds / Osram Make LED Source. LED Streetlight 150 Watts	No.	154.00	12300.00	1894200.00

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SI. No.	Page No.	Item No.	Description	Unit	Quantity	Rate in	Amount Rs.
2.2	67	12.8.1	6 1 0				its.
		12.0.1	Supply of LED Streetlight Luminaire with Pressure Die Cast Aluminium Housing Body for Optimal Thermal Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser with Injection moulded Polycarbonate Material, delivering superior Light Output. Rate Life Burning hrs. 50000 hr. @ Lumen Maintenance of 70%, Maximum Light Intensity should be between 60 degrees and 70 degrees, CCT > 5500K, IP 66 Optical and Electrical Compartment and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9 with Mains, Surge Protection minimum 5KV along with Over Voltage / Overload, Short Cinniis (A) No.	No.	146.00	1840.00	268640.0
			Voltage / Overload, Short Circuit / Miss - Wiring Protection. Compatible for Pole Mounting with Outer Dia of 40mm to 50mm. Universal Voltage Driver to operate wide Voltage range from 100V to 270V 50 / 60 Hz Application. Compliance to IS: 10322 / IEC 60598, LM 79 and LM 80 adherence with RoHS UL approved MCPCB. Top access Street Light with Single Seventeen.				
			access Street Light with Single Screw to ensure ease of maintenance at the Sight Site Location with minimised minimal Tools. LED Light Fixture with 25 Watts System Power consumption. LED Efficiency > 130 lm / w, nominal CRI > 75. Luminaire Manufacturer should have in house Facility accredited by NABL /	+			1
			Development Facility certified by ISO 9001: 2008. Housing with Supplier Word Mark / Name shall be engraved / embossing on the Die Cast Housing / Body Part, Warrenty of S Vices				
		- And	Manufacturing Defect working under Standard Electrical Conditions as mentioned above should be given by LED Manufacturer and Cree / Nichia / Lumileds / Osram Make LED Source. LED Streetlight 25 Watts				
13						1 51 8	1 1
18	3 4.3	s F S 9 W a d	Fabricating, supplying and erection of 11m long hot dip Eac Galvanized Octagonal Pole with BSEN 10025 grade S 355 JO steel plate of shaft, IS: 2062 for base plate with door opening arrangements, including suitable boards, bakelite sheet and MCBs as per IS Specification suitable to withstand the Wind Speed of 47m / sec for 11m Pole in single section and single joint welded as per IS: 2595 / IS: 10178AWS having dimensions Bottom 210mm, Top 90mm with 3mm thick, suitable base plate and 4Nos. 11m long J Bolts along with Template and Pole shall be Hot Dip Galvanized in single hipping with not less than 65micron as per ASTM - A123 and 153, tc. (excluding Foundation) as per drawing appended.	ch	146.00 2	20698.00 3	021908.00
			1meters - Top 90mm and Bottom 210 mm dia			7	

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No.	Page It		Unit	Quantity	The second second	in Amount
2.4	15 (4.6	Fabrication, Supplying, Erection, Testing and Commissioning of 12Mtrs / 12.5Mtrs long Polygon High Mast with Single / Multiple Telescopic Sections having (minimum overlap distance of 1.5 times of top section) thickness as per BSEN 10025 Grade S355 JO / ASTM A572 - 50 Steel Sheet Plate for shaft suitable to withstand a wind velocity of 47 m / sec as per IS: 875 Part 3 (as per GA Drawing). Base Plate as per IS: 2062 / ASTM A572 - 50. The Mast shall be Galvanized in single Hot Dip as per BSEN ISO 1461 / ASTM A123 with an average 70 microns as per IS: 2629 and welded as per BS: 5135 Single L - Seam Joint. The Mast shall have 2 way Head Frame with Die Cast LM - 6 Pulleys, Stainless Steel Axle, Phosphorus Bronze bearing Bush press fitted with seperate guides for 2 runs of 5mm dia, Stainless Steel Wire Rope of AISI 304 Grade 7 / 19 - Core, (Factor of Safety as per TR No. 7). 2.5 Sqmm EPR insulated PCP sheathed trailing power cable housed inside the Bottom Shaft of Mast with Door having Locking Arrangement. The Mast shall have Manual / Power Tool (suitable Reversible Geared Motor operating on 230 / 415V, 50 Hz, shall be provided above 15m Mast). The Mast shall have Lantern of 2 Segments, suitable dia with Maximum Load Carrying Capacity as per IS: 1239. The Mast shall be erected on existing RCC Footing. The Mast shall be supplied with 3mm thick template, Lightning Arrester of 1.2m length Galvanized Pipe with Top Arrow fitted on top of the Head Frame Cover and GLS Type Aviation Twin Lamps Fitting with Wiring complete (excluding Foundation) as per Technical Data.	Each	2.0	Rs. 0 105600	Rs. 2.00 211200
5 16	4.7.1	Supplying, and fixing of Hot Dip Galvanized M. S. Bracket Easuitable for Outdoor Luminaries and mounted on Octogonal Pole using necessary Bolts, Nuts, etc. complete. Single Arm Bracket with 1000mm Standard 40 / 50 mm dia	ch	146.00	1689.00	246594.00
16	4.7.6	Supplying, and fixing of Hot Dip Galvanized M. S. Bracket Each suitable for Outdoor Luminaries and mounted on Octogonal Pole using necessary Bolts, Nuts, etc. complete. Double Arm Bracket with 2000mm Standard 40 / 50 mm dia	ch	146.00	3696.00	539616.00
		LT UG Cables	+		1	
10		Earthing for Feeder Pillar	_			
40	6.2	Supplying, fixing and wiring Earth Electrode for grounding of No. Lifts, Transformers, DG Sets, etc. using 40mm dia 2.9mm thick 2.5m long GI Pipe with GI Funnel with Mesh and suitable Size Reducer fixed on the Top of the Earth Electrode. The Funnel should be enclosed in a CC Chamber of 400 X 400 X 400mm with a Cast Iron Cover. The Earth Electrode shall have Staggered Holes of 12mm dia and the Electrode should be covered 150mm alround with Alterate Layers of Salt and Charcoal from the bottom of the CC Chamber. The Connection from the Electrode is to be established through GI Strip using GI Bolts and Nuts.		4.00	4150.00	16600.00
40	6.3.1	Supplying and running of GI / Copper Strips for grounding Mtr. Connections using necessary Fixing Materials as required. 25 X 3mm GI Strip		.50.00	75.00	3750.00
40	6.4.2	Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistant PVC insulated, PVC extruded Inner Sheath armoured UG LT Cable as per IS: 1554 (Part 1) or IS: 7098 Part 1. Armouring Strip Thickness in Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 3975 4 Core 10 Sqmm	35	00.00	130.00	455000.00

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Page 3 of 6

S		Page It No. N		T	Unit	Quantity	N. A. Children and S.	in Amount
3.	4 4	6.4	Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistan insulated, PVC extruded Inner Sheath armoured UG LT Cable IS: 1554 (Part 1) or IS: 7098 Part 1 Armouring Strip Thickn Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 394 Core 16 Sqmm	as per	Mtr.	200.0	Rs.	Rs. 30000.0
3.5	5 4	1 6.5	Trench GI Pipe / Stoneware Pipe / on Wall / on Pole as required.	isting M	Itr.	3500.00	11.8	8 41580.0
			In existing Trench / Duct 6 Sqmm to 16 Sqmm					
3.6	41	6.5.	Labour Charges for laying of 1.1 KV Class UG Cable in exi Trench GI Pipe / Stoneware Pipe / on Wall / on Pole as required.	sting M	tr.	200.00	30.00	6000.00
			On Wall / Structure 6 Sqmm to 16 Sqmm			Ú,		
3.7	41	6.6.	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench the required ground level and consolidating, etc. In Soil (Ordinary)	ch to Mt.	r.	2700.00	76.00	205200.00
3.8	41	6.6.2	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trenc the required ground level and consolidating, etc. In Soil (Hard)	h to Mtr	·	300.00	102.00	30600.00
.9	41	6.6.3	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench the required ground level and consolidating, etc. Cutting Road Surface	n to Mtr.		500.00	82.00	41000.00
10	41	6.6.4	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench the required ground level and consolidating, etc. Asphalt Cutting	to Mtr.		150.00	113.00	16950.00
11	41	6.6.5	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench the required ground level and consolidating, etc. C. C. Cutting	to Mtr.		50.00	205.00	10250.00
2	42	6.11.2	Supplying and fixing of Heavy Duty Cable Glands suitable for U Cable of 1.1 KV Class (metal only) 25mm dia	G Each		302.00	84.00	25368.00
3	42	6.9.5	Supplying and fixing of Class A (Medium Duty) GI Pipe of Wa Thickness not less than 3.25mm on Pole / Wall / Drain Crossing wit necessary Clamping Arrangements for UG Cable of 1.1 KV.	ll Mtr.		300.00	890.00	267000.00
			100mm					
	42	6.12.2	Supplying and making Straight through Cable Joint with Epoxy Resin including Ferruls and other Jointing Materials for PVC Insulated and PVC Sheathed Steel Tape, Wire armoured Aluminium Conductor 4 Core Cable of 1.1 KV Grade.	vive.		2.00	1280.00	2560.00
4	3	6.14	10 / 16 Sqmm Supplying Epoxy Resin and Covering the Cable Joint	Per Kg		1.00	870.00	870.00
4	3	6.15	Supply and wrapping the Conductor with Camabrick Tape			1.00	118.00	118.00

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No.	No	age Ite		Description	Unit	Quantity	Rate in	Amount Rs.
3.17	43	6.1	17.5	Supplying tinned Copper Lugs and crimping and wiring to Terminal Point for Wire. 10 Sqmm	o Each	808.00	8.00	
3.18	43	6.1	7.6	Supplying tinned Copper Lugs and crimping and wiring to Terminal Point for Wire.	Each	16.00	12.44	199.
3.19	44	6.18		Supplying and running GI / Copper Conductor for grounding and (along with other Wires in Conduit System of Wiring) using necessary suitable size Clamps, Nails, Guttas / Spacers, etc. 8 SWG GI Wire	Mtr.	7000.00	19.00	133000.
.0				Fixing Charges				
.1	79	14.5		Fixing Halogen / Metal Halide / SVL / IL / LED Flood Light Etting over existing Pole / Wall Ceiling including Clamps, Bolts, Nuts and Wiring using suitable capacity wires.	Each	154.00	175.00	26950.0
0	29	5.33	E	External Lighting Feeder Pillar				
		0.00	P	Supplying of Multi Function Digital Meter with three line Back E sight LCD type Display of Voltage, Current, Frequency, Power, Power Factor, KVA, KWH, KVAR suitable for 3 Phase, 4 wire LT letwork with IP 54 degree of Protection and completely wired as equired with Communication Port and Class 0.5s Accuracy.	Cach	2.00	7750.00	15500.00
2	29	5.34	St	upplying, fixing and wiring 50 / 5 to 400 / 5 Amps 5VA burden Edurrent Transformer, Class 0.5 Accuracy with tape wound.	ach	6.00	468.00	2808.00
2	9	5.38	Su	applying and fixing of LED Type Panel Board indicating Lamp Eath required colour suitable for 230 / 440 V A. C. 50HZ 12 / 24 V D.C.	ich	6.00	430.00	2580.00
3:	2	5.47		pplying and fixing Microprocessor based Electronic Timer Eathout Contactor. Din Mounting using necessary Bolts, Nuts and ashers, etc.) 3 - 120 sec setting.	ch	2.00	1925.00	3850.00
26		5.13.3	Suj Co: Nu per	pply and fixing of 4 Pole Power Contactor with NO / NC Each ntacts on existing Wood / Panel Board using necessarry Bolts, ts, Washers and Wiring, etc. complete with AC - 3 Rating and as IS: 13947	:h	2.00	4200.00	8400.00
27	5	.17.9	Cur	llying and fixing Miniature Circuit Breakers on existing MCB Eacl cribution Boards using necessary Fixing Materials and 'C' Type ve, Indicator ON / OFF, Energy Cross - 3 with Short Circuit aking Capacity of 10K and complete Wiring as required forming to IEC: 60898.	h :	2.00 2.	397.00	4794.00
			In c	omer				
			50 -	63 Amps TPN	2 1 × 4			* *
27	5.		Curv Breal confo	ying and fixing Miniature Circuit Breakers on existing MCB Each ribution Boards using necessary Fixing Materials and 'C' Type e. Indicator ON / OFF, Energy Cross - 3 with Short Circuit king Capacity of 10K and complete Wiring as required rming to IEC: 60898.		10.00 23	97.00 23	970.00
				Going				. =
-	-	15	50 - 6	3 Amps TPN				

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SI. No.	Page No.	Item No.	Description		-	Rate in	Amount in
5.8	31	5.44.3	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with Transparent Polycarbonate Lid, Shock Proof, IP 65 (Weather Proof), Rust Proof, Dust Proof, Water Proof, Corrosion Proof having internally Embedded Gasket on both Lid and Flap suitable to fix Single Phase / Three Phase Energy Meter in suitable Base Plate and having a Provision for Fuse / MCB Cutout with suitable Transparent Hinged Flap Opening for operating MCB along with complete Tamper Proof SEALING Facility. 300 X 600 X 170mm		2.00		Rs. 11426.0
5.9		Market Rate	Interlinking Copper Strip, Copper Wires with Lugs, Bolt and Nut between Busbar and Switch Fuse Unit, MCBs.	Each	2.00	10000.00	20000.00
			Grand Total			-	7783745 04



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Rate Analysis and

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Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Rate Analysis

SI. No.	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
1	Removing B. S. Slab of Drain and Stacking	2018 - 19	Sqm	27	5.32	99.00	5.94	104.9
2	Removing and resetting of Footpath Slab	2018 - 19	Sqm	270	37.56	197.00		A CONTRACTOR OF THE CONTRACTOR
3	KSRRB M200-25: Dismantling of guard	2010 10				187.00	11.82	208.82
	rails by manual means and disposal of dismantled materials with all lifts and stacking serviceable materials and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202	2018 - 19	m	140	18.48	87.00	5.22	92.22
]	KSRRB M200-26: Dismantling of Kerb	0010 10						19-1
o N	dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202	2018 - 19	n	141	18.49	12.00	0.72	12.72
e: re co w so th un se as iii Ri	ASRRB M200-15.2: Dismantling of existing structures like culverts, bridges, etaining walls and other structure comprising of masonry, cement concrete, rood work, steel work, including T&P and caffolding wherever necessary, sorting the dismantled material, disposal of inserviceble material and stacking the erviceble material with all lifts complete a per specifications. i) Dismantling Stone Masonary B. ubble Stone Masonry, in Cement ortar. SSM	2018 - 19 0	um	140	18.27	351.00	21.06	372.06
ex Br str cor T& sor of a ser as I	SRRB M200-13.1: Dismantling of isting structures like culverts, ridges, retaining walls and other fucture comprising of masonry, cement herete, wood work, steel work, including a pand scaffolding wherever necessary, thing the dismantled material, disposal unserviceble material and stacking the viceble material with all lifts complete per specifications. By Mechanical Means, Cement Concrete Grade M15 &	2018 - 19 Cu	m	139	18.20	390.00	23.40	413.40

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SI. No.	Description of Work	PW, P & IWTE Bengaluru Circle Referen		SR Pg. No.	Item No.	Basic Rate in	AW 6%	Total Rain Rs.
7	KSRRB M200-14.2: Dismantling of existing structures like culverts, bridges, retaining walls and other		3 - 19 Cum	139	18.23	351.00	21.06	372.0
	structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete.		-					
	as per specifications. ii) Dismantling brick / Tile work Masonary B. In Cement Mortar MORTH Specification No. 202							
	KSSRRB M200-7.1: Clearing grass and removal of rubbish by manual means and stacking outside the periphery of the area cleaned complete as per specification. MORTH Specification No.201	2018	- 19 Ha	138	18.10	25755.00	1545.30	27300.30
5	Dismantling A.C. sheet roofing and tacking the material within a radius of Om including cost of materials, abour, HOM complete as per pecifications.	2018 -	19 Sqm	269	37.42.3	99.00	5.94	104.94
e	SRRB M200-17.1: Dismantling of xisting structures like culverts, bridges, etaining walls and other structure	2018 -	19 Tonne	140	18.33	1893.00	113.58	2006.58
w	omprising of masonry, cement concrete, cond work, steel work, including T&P and caffolding wherever necessary, sorting the dismantled material, disposal of							
as	nserviceble material and stacking the rviceble material with all lifts complete per specifications. Steel work in all types of Sections				-			
ex In	cluding Cutting of Rivet A. cluding dismantling.					8 8 20		
sei dej	SRRB 200-1: Cutting of trees girth cluding cutting of trunks, branches and moval of stumps roots stacking of viceble materials earth filling in the pressions / pit. labour charges complete per specifications.							
M(Ch	ORTH Specification Clause 201 / apter 2.							
600	RRB 200-1: -do- girth from 300mm to	2018 - 19		138	18.1	299.00	17.94	316.94
900	RRB 200-2: -do- girth from 600mm to mm RRB 200-3: -do- girth from 900mm to	2018 - 19		138	18.2	922.00	55.32	977.32
180	Omm RRB 200-4: -do- girth from 1800mm to	2018 - 19		138	18.3	2243.00	134.58	2377.58
270	Omm RRB 200-5: -do- girth from 2700mm to	2018 - 19		138	18.4	3489.00	209.34	3698.34
360	Omm	2018 - 19	Each	138	18.5	3977.00	118.62	7395.62

SI. No		PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
12	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. In the Asphalt surface road including cost of materials, labour, HOM complete as per specifications.	2018 - 19	Cum	269	37.38	449.00	26.94	475.9
13	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. In the Macadam road including cost of materials, labour, HOM complete as per specifications.	2018 - 19	Cum	269	37.37	299.00	17.94	316.94
	KSRRB M200-32: Removal of Telephone / Electric Poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and stacking the serviceable and unserviceable material separately complete as per specifications. MORTH Specification No. 202	2018 - 19	Nos.	141	18.57	217.00	13.02	230.02
	KSRB 2-2.1: Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits, etc.either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m including breaking of clods complete as per specifications. No.KBS 2.1(a)/2.3.5	2018 - 19	Cum	6	2.3	299.00	17.94	316.94
t s d tr	KSRB 2 - 2.2: Earthwork excavation by manual means for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits etc, either in pits or in renches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including bressing the bottom and sides of pits and renches, stacking the excavated soil clear rom edges of excavation with lead upto Om. including breaking of clods complete as per specifications. No. KBS 2.1(b) / 2.3.5	2018 - 19 C	um	6	2.4	449.00	26.94	475.94
w ar ag @ in co	SRB 4 - 1.1: Providing and laying in osition plain cement concrete of Mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse gregate @0.878Cum and fine aggregates 0.459Cum machine mixed, concrete laid layers not exceeding 15cm. thick, well empacted, in foundation, including cost of materials, labour, HOM, curing emplete as per specifications. Decification No. KBS 4.1, 4.2	2018 - 19 Cu	m .	13	4.10	5283.00	316.98	5599.98

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SI. No.	Description of Work	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat in Rs.
18	KSRB 4-6.4: Providing and removing	2010 10						
	centering, shuttering, strutting, propping, etc. and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	2018 - 19	Sqm	16	4.31	358.00	21.48	379.4
9	Specification No.KBS 4.6.2 KSRB 4.2.7: Providing and laying in							
	position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplasticiser @ 3lts Conforming to IS: 9103 - 1999 Reaffirmed - 2008, machine mixed, concrete laid in layers not exceeding 15cm thick, vibrated for all works in Ground Floor Level for Roof	2018 - 19	Cum	14	4.12	6045.00	362.70	6407.70
i t	Slabs, Staircase, Lintels and Beams, Retaining Walls, Return Walls, Walls (any thickness) including attached pilasters, columns, lintels, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor				r			
i	plocks, plain window cills, fillets etc. neluding cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per pecifications. Specification No. KBS 4.1, 4.6							
K	ISRB 5.2-3: Providing and constructing	2018 - 19 C	um	95		1700.00		
ir st le an sr Sn	ranite / trap / basalt size stone masonry of foundation with cement mortor 1:6, tone hammered dressed in courses not less than 20cm high, bond stones at 2m. Expart in each course including cost of lateraials, labour, curing complete as per pecifications. pecification No. KBS 5.1.13.	2010 - 13		25	5.6	4596.00	275.76	. 4871.76
Cow	SRRB M2200-8: Providing Weep Holes Brick Masonry / Plain / Reinforced oncrete Abutment, Wing Wall / Return fall with 100mm dia AC Pipe, extending	2018 - 19 No		229	28.10	147.00	8.82	155.82
foo Te m:	rough the full width of the structure ith slope of 1V:20H towards drawing ce. Complete as per drawing and echnical Specifications including cost of aterials, labour, HOM complete as per ecifications. ORTH Specification No. 2706 & 2200					8		



SI. No.	Description of Work	PW, P & IWTD S Bengaluru Circle Reference		SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
22	KSRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplasticiser @ 3lts Conforming to IS: 9103 - 1999 Reaffirmed - 2008, at	2018 - 1	19 Cum	14	4.10	5812.00	348.72	6160.72
	machine mixed, concrete laid in layers not exceeding 15cm thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts,							
	buttresses, bed blocks, anchor blocks and plinth etc. including cost of all materials, labour, HOM of machinery, curing, complete but excluding Cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6							
i i i i i i i i i i i i i i i i i i i	KSRB 4.9.2: Providing TMT Steel Reinforcement for RCC work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3						and an anomaly a common of the contract of the	
7	TMT bars Fe 500	2018 - 19	Tonne	18	4.46.2	70966.00	4257.96	75223.96
g in e n 2: m	SSRB 5.3-3: Providing and constructing ranite / trap / basalt size stone masonry in basement with cement mortor 1:6, dges of stones chistle dressed in courses ot less than 15cm high, bond stones at m apart in each course including cost of nateraials, labour, curing complete asper pecifications. pecification No. KBS 5.1.13.	2018 - 19	Cum	25	5.9	5483.00	328.98	5811.98
dc ag ag co cn pl:	SRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 ith cement @240kgs, with 20mm and own size graded granite metal coarse gregates @0.878Cum and fine gregates @0.53Cum machine mixed, increte laid in layers not exceeding 15 ins. thick, well compacted, in foundation, inth and cills, including cost of all atterials, labour, HOM of machinery, tring complete as per specifications.	2018 - 19	Cum	13	4.6	5422.00	325.32	5747.32

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Sl. No.		PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
26	Providing and fixing M. S. Grill over existing compound wall as per using 16mm x 16mm M.S. Square Rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M. S. Flat for ornamental design and providing shop edge design at the vertex of every vertical	2018 - 19	Sqm	44	7.36	5369.00	322.14	5691.14
	rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint), etc. complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc. complete as per	1						
	specification. KSRB 5.4-4: Providing and constructing							
i i i i	granite / trap / basalt size stone masonry in Super Structure with cement mortor 1:4, edges of stones chistle dressed in courses not less than 15cm high, bond stones at 2m apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. Specification No. KBS 5.1.13.	2018 - 19	Cum	25	5.13	6005.00	360.30	6365.30
8 H	SSRB 6-6.3: Providing and constructing Burnt Brick Masonry with approved quality of modular bricks of standard size of class designation 7.5 Newton per Somm	2018 - 19 C	um	30	6.21	10284.00	617.04	10901.04
s n cı	Machine moulded Wirecut Bricks) with ement mortar 1:4 for basement and super tructure including cost of naterials, labour charges, scaffolding, uring complete as per specifications. pecification No. KBS 6.2							
w ar ag	SRB 4-1.5: Providing and laying in osition plain cement concrete mix M20 ith OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse ggregates @ 0.69Cum and fine aggregates	2018 - 19 Cu	ım	13	4.5	5328.00	319.68	5647.68
in co in He	0.43Cum machine mixed, concrete laid a layers not exceeding 15cm thick, well empacted in foundation, plinth and cills, cluding cost of all materials, labour, OM of machinery, curing complete as a specifications.							
m; de nic	SRB 15.1-1: Providing flush pointing to uare rubble, course or uncoursed stone asonry with cement mortar 1:3, 20mm ep. after raking joints to depth of 20mm cely lining, including cost of materials,	2018 - 19 Sq.	m	115	15.1	141.00	8.46	149.46
lak	cour, curing complete as per ecifications.	1.2.1						

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Sl. No.	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate in Rs.
31	KSRB 2.4: Refilling available earth around pipeline, cables in layers not exceeding 20cm in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications.	2018 - 19	Cum	7	2.11	121.00	7.26	128.26
32	KSRRB M100-4.1: Cost of Haulage excluding Loading and Unloading MORTH-100/Chapter 1 (Lead upto 19 Km)	+ -			-			y = = ''s'
	for Earth (Excavated soil) (19*1.28*2) = 48.64	2018 - 19	Cum	136	17.4	48.64		48.64
	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2	2018 - 19	Sqm	16	4.28	258.00	15.48	273.48
	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square/rectangular/polygon in plan including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2	2018 - 19	Sqm	16	4.32	456.00	27.36	483.36
i	KSRB 2.2.7: Benching Hard Rock 5 to 7.5cm depth of seating of foundation, including cost of all labours, tools etc. complete as per specifications. Specification No.KBS 2.1(a) / 2.3.1	2018 - 19 8	Sqm	6	2.9	2192.00	131.52	2323.52
3	Anchor Bolt Chemical	2018 - 19 I	iter	Market	Rate	6760.00		6760.00
le le	CSRRB M300 - 14: Excavation for coadwork in all types of soil by mechanical means including cutting and coading to tippers, trimming bottom and ide slopes, in accordance with	2018 - 19 (Cum	143	19.14	41.00	2.46	43.46
1	equirements of lines, grades and cross ections, and transportation with a lead of km and complete as per specifications. IORTH Specification No. 301							

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SI. No	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
38	KSRRB M2100 - 13: Providing and laying Plain / Reinforced Cement Concrete mix 1:2:4 with OPC cement @240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84Cum and fine aggregates @ 0.56Cum in Open Foundation including cost of all materials. labour, HOM, curing, form works, scaffolding and centering complete as per specifications complete as per Drawing and Technical Specifications MORTH Specification No. 1500, 1700 & 2100		Cum	222	27.24	5103.00	306.18	5409.13
	KSRRB M2100 - 16.2: Providing and laying Plain / Reinforced Cement Concrete M25 with OPC @ 340 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.70Cum and fine aggregates @ 0.47Cum, with superplasticizer @3lts Conforming to IS - 9103 - 1999 Reaffirmed - 2008 in Open Foundation complete as per Drawing and Technical Specifications including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH specification No.1500, 1700 & 2100	2018 - 19	Cum	223	27.29	4995.00	299.70	5294.70
	KSRRB M1200-47: Providing steel liner 10mm thick for curbs and 6mm thick for steining of wells including fabricating and setting out as per detailed drawing complete as per specifications including cost of all materials, labour, HOM, form works, scaffolding and centering complete as per specifications. MORTH Specifications No.1200 & 1900	2018 - 19 To	onne	217	26.125	68589.00	4115.34	72704.34
c 2 c a s 9 R c H	ASRRB 1100 - 2: Driving cast - in -place Vertical RCC 500mm dia. Piles with ement Design Mix M35 @390kgs, with 0mm and down size graded granite metal parse aggregates @ 0.69Cum and fine ggregates @ 0.45Cum, with uperplasticiser @ 3lts conforming to IS -103 - 1999 Reaffirmed - 2008. excluding einforcement as per Drawing, including lost of all materials, labour, COM complete as per specifications.	2018 - 19 m		197	25.2.2	7765.00	465.90	8230.90

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	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate i Rs.	AW 6%	Total Ra
42	121100-11.2: Cement Concepts f	2018 - 19	Cum	200	95.05	7001		
	Reinforced Concrete in Pile Cap as per Drawing and Technical Specification		3500000	200	25.25	5231.0	313.86	5544.8
	complete as per specifications RCC							atampi
1	lor design mix M35 @ 300legg							
1	Zomin down size graded granite motel			1 1				
	coarse aggregates @ 0.68Cum and fine							
	laggregates @ 0.45Cum			1 1				
	superplasticiser @ 3lts conforming:				1 1			
	159103-1999 Reaffirmed - 2008							
	Case - II: Using Batching Plant, Transit				- 1			
	Mixer and Concrete Pump. Including costs of all materials labour, HOM, form works,				- 1			
	scaffolding & centering.					•		
	MORTH Specification No. 1100 1500 e	1.75	14					
	1700.		- 1		- 1			
43	KSRRB M2300 - 14: Providing TMT Steel							
	Reinforcement for R.C.C. Work including	2018 - 19 T	onne	239	29.29.2	69804.00	4188.24	70000 0
	straightening, cutting bending beal-	1				100	4100.24	73992.24
- 1	placing in position lanning and	4						
- 1	weiting wherever required tring with		- 1					
- 1	billing wire and anchoring to				1	. 1		
	aujoining members wherever negotianing			- 1				
- 1	complete as per design (lane hooks and		- 1		- 1			
	wastage shall not be measured and							
- 1	including cost of materials, labour HOM		- 1					
- 1	omplete as per specifications		- 1					
1	MORTH Specifications No.1600 and 2200	A	- 1	1	1			
			- 1	- 1				
F	KSRRB M2200-6: Providing TMT Steel							24 J
1.4	reinforcement for RCC Worls : 1	2018 - 19 Tor	nne	229	28.8.2	8233.00	4093.98	79990.00
18	traigntening, cutting, bending booking	1		1			2000.00	72326.98
. P	racing in position (anning and		- 1			1	. 1	
IW	relating wherever required trains with	1			- 1			
10	inding wire and anchoring to the		- 1					
la	djoining members wherever necessary		- 1					
Co	omplete as per design (laps, hooks and	ASP. T			1 4		1	
CO	astage shall not be measured and paid)							
2.5	est of materials, labour, HOM complete per specification.	1	- 1					
M	ORTH Specification.					-	1 -	
TI	ORTH Specification No.1600 & 2200 MT Bars Fe 500				- 1			
			- 1	1				
Pr	oviding and fixing Precast RCC Slab	2018 - 19 Sqm	DD	V(D)				
OI	100mm thick for Drain Cover in	2010 - 15 Sqm	BB	MP Appro	ved 1	724.00		1724.00
Ce	ment Concrete M20 with Reinformed			Rate				
Mo	eel and Pointing for joints with Cement							
cur	ortar in 1:3 including Form Work, lift, ring and finished surfaces on both sides					1	1	
etc.	complete and as per the Directions of						1	
Eng	gineer-in-Charge.		1		1			
Pro	oviding and laving rainforced	2010 10					1	2 3 1 E
cen	ment concrete pipe NP3 of die	2018 - 19 m ·	25	34.6.	5 55	02.00 3	30.12 5	832.12
300	mm for culverts including pointing							002.12
end	s, and fixing collars with coment				1			
mor	tar 1:2 including cost of all materials.	10.7			1			
labo	our, curing complete as por							
spec	cifications. Specifications No KSRR		1		1		,	
TOOL	J, 2300 MOST Specification No. 1000 /		1					
2300		2000						
	900 mm dia pipe	Ar H			-			3.

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SI. No.	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
47	Providing and laying reinforced cement concrete pipe NP3 of dia 300mm for culverts including 'pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300	2018 - 19	m ·	254	34.6.6	8428.00	505.68	8933.6
	SWD 1200mm dia pipe							
1	Providing and laying reinforced cement concrete pipe NP3 of dia 300mm for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300	2018 - 19	m	254	34.6.1	1534.00	92.04	1626.04
_	300mm dia Pipe							- 4 1 8 1
a a a t le fi	Providing, supplying and fixing MS Surface Grating of size 500mm x 400mm at gully trap along the road surface as per approved drawing including transportation to site, all charges of labor, coading and unloading etc. complete for fixing as indicated in the drawing with all ead and lifts as per detailed tender pecifications and as directed by the ngineer.	2018 - 19 S	qm	BBMP Ap Rate		9300.00	-	9300.00
K	SRRB M800-29.2: Providing and laying f a Reinforced Cement Concrete Pipe	2018 - 19 m		186	24.35	3191.00	191.46	3382.46
dislikation of this special sp	Ouct, 300mm dia, across the road (new onstruction), extending from drain to rain in cuts and toe of slope to toe of ope in fills, constructing head walls at oth ends, providing a minimum fill of ranular material over top and sides of CC pipe as per IRC: 98 - 1997, bedded on 0.3m thick layer of granular material ee of rock pieces, outer to outer distance pipe at least half dia of pipe subject to inimum 450mm in case of double and iple row ducts, joints to be made leak oof, invert level of duct to be above gher than ground level to prevent entry water and dirt, all as per IRC: 98 - 1997 d approved drawings complete as per ecifications.							

SI. No.	Description of Work	PW, P & IWTD SI Bengaluru Circle Reference	R, Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
51	Construction of granular sub-base	2018 - 1	9 Cum	153	20.8	1882.0	0 112.92	1994.9
	Grading-V as Sub-base and drainage layer by Providing coarse graded crushed						112.02	1334.3
	stone aggregate of granite / trap / basalt	4.76	1					
	material, mixing in a mechanical mix						Part of	
	plant at OMC, Carriage of mixed							
	material to work site, spreading in							
	uniform layers with motor grader on		1					
	prepared surface and compacting with							
	vibratory power roller to achieve the 98% proctor density, complete as per							
	Specifications.							
	Clause 401 of MORTH V Revision							
52	KSRRB M400 - 17: Providing, laying,	2018 - 19	Cum	155	20.18	1888.00	113.28	. 2001 00
	spreading and compacting crushed stone				-0.20	2000.00	110.20	2001.28
	aggregates of granite / trap / basalt to Wet Mix Macadam specifications including						9	
	pre mixing the material with water at					ķī.		
	OMC in mechanical mix plant carriage							
	of mixed materials by tipper to site, laving					8	7	
	in uniform layers with paver in sub-	1723						
	base/base course on well prepared surface							
	and compacting with vibratory roller to				1	*		
	achieve the desired density complete as							
	per specifications. MORTH Specification No. 406				- 1			
	MORTH Specification No. 406							1
3	KSRRB 500-9: Providing and applying	2018 - 19	Sam	Issue	21.9	20:00	1.00	0.00
1	Tack Coat using 80/100 Grade Bitumen		- 1	Rate	21.0	20:00	1.20	21.20
1	(VG10) on granular base such as WBM				- F			
1	surfaces hot bitumen primed at 4kg per 10Sqm, heating bitumen in boiler fitted	50 500					: 1	
,	with spray set (excluding cleaning of road							
8	surface) including cost of all materials,							
1	abour, HOM Complete as per		- 1			1		
	specifications.	2.5						
	Clause 503 of MORTH V revision				1			
I	KSRRB M500-17: Providing and laying	2018 - 19	Cum	Issue	21.17.2	6650.00	399.00	7049.00
C	lense graded bituminous macadam			Rate			00.00	7040.00
u	using crushed aggregates of specified		.					
h	rading, premixed with VG30 grade vituminous binder and, transporting the			- 1				
h	not mix to work site, laying to the required		- 1			- 1		
g	rade, level and alignment, rolling with					1		
81	mooth wheeled, vibratory and tandem	1						
re	ollers to achieve the desired compaction				1			
a	s per MORTH table 500 - 10 complete in						30	- 3
a	Il respects complete as per specifications.	1/4						
IM.	IORTH Specificatin No. 507.		- 1	- 1				
m	sing 120 TPH capacity Asphalt batch aix plant with sensor paver Gr -II (50 mm							
to	75 mm) with 4.5 % VG-30 Bitumen		- 1		_	1		
		12.			1			
12	SRRB 500-7: Providing and applying	2010 10						
ta	ick coat using 80 / 100 grade bitumen	2018 - 19 5	qm	Issue Rate	21.7	12.00	0.72	12.72
(V	G 10) on the prepared black topped		194	reate				141 111
su	urfaces at 2.5kg per 10Sqm, heating							
	tumen in boiler fitted with spray set							
(e:	xcluding cleaning of road surface)						8	
	cluding cost of all materials, labour,							
	OM complete as per specifications.							-
ICI	ause 503 of MORTH V revision					- 1		

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SI. No.		PW, P & IWTD SR, Bengaluru Circle Reference	Unit .	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
56	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment,		Cum	Issue Rate		7582.00	454.92	8036.92
	and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.					8		
	Using 120 TPH capacity Asphalt batch mix plant with sensor paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)				-			
	KSRRB 2200-5.12: Providing and laying Design Mix M25 with OPC @340kgs, with 20mm and down size graded granite fletal coarse aggregates @0.7Cum and fine	2018 - 19 (Cum	227	28.7.12	5321.00	319.26	5640.26
i di	aggregates @0.47 Cum, with superplasticiser @3lts Conforming to IS: 9103-1999 Reaffirmed - 2008 including cost of materials, labour, HOM curing. form work, scaffolding and centering complete as per specifications.							
d t	ASRB 14.6-6: Providing and laying heavy duty interlock concrete paver block 60mm hick 300mm X 300mm using cement and course sand for manufacture of blocks of	2018 - 19 S	qm	103	14.6	1053.00	63.18	. 1116.18
a p (a p) fo	approved size, shape and colour with a minimum compressive strength of 281 kg er Sqm over 50mm thick sand bed average thickness) and compacting with late vibrator having 3 tons compaction once thereby forcing part of sand inderneath to come up in between joints.							
in m m sp	nal compaction of paver surface joints ato its final level, including cost of naterials, labour and HOM of nachineries complete as per pecifications.							
ag M 15 inc les cos Re	roviding and laying Cement Concrete sing 20mm and down size granite coarse gregates and fine aggregates of Ready ixed Concrete for RCC Works laid in form thick layers and will compacted cluding vibrating, curing, etc. with all and and lift, etc. complete (exclusive of st of steel and fabrication charges) and Mixed Cement Concrete for Beams, aircase and Roof with M30	2018 - 19 Cu	m	19	4.49.3	5598.00	335.88	5933.88

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(Quit)

Sl. No.	Description of Work	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
60	KSRB 2.3: Filling available excavated earth (excluding rock) Embackment with available earth in road upto plinth in layers not exceeding 20cm in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications. Specification No. KBS 2.9		Cum	7	2.10	201.00	12.06	213.00
	Providing and fixing Precast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. Size 450 x 150 x 500 mm	2018 - 19	Nos.	27	5.29.2	441.00	26.46	467.46
5	Supply, Fabrication, Painting and Fixing of Mild steel items such as Horizontal and Vertical Gratings, Flower Baskets, Cycle stands, Tree Guards, Edge angles, Bollards, etc and any other items as specified in drawings or as approved by Engineer - In - Charge.	2018 - 19	Nos.	BBMP An		4000.00	-	4000.00
5 5 pp (0 a cc	KSRRB M800 - 20: Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm: Providing, fixing and erecting 50mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels ISMC Series) 100 mm x 50mm, 1.2m high above ground, 2m centre to centre, complete as per approved drawings as per pecifications. MORTH Specification No. 808.	2018 - 19 1	n	184	24.24	1426.00	85.56	1511.56
di bo re in Fi fin Ti co mi lifi lan los the	Providing and Fixing Precast Solid Cement Concrete crash barrier / ivider made out of M35 with top and ottom width 100mm and 350mm espectively 1000mm height and 2000mm in Length (as shown in the drawing), inished with CM 1:3 plastering and mishing cutting, including form work MT steel as required curing, including est all material labour hire charges of achinery, loading, unloading, lead and it, transportation etc., complete. To be id between Travel lane, cycle track/indscape etc., with all lead and lift, ading, unloading, complete and as per edirections of Engineer - in parage. (Form Finish concrete and no	2018 - 19 E	ach	BBMP App Rate		6400.00		6400.00

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No.		PW, P & IWTD SR, Bengaluru Circle Reference	Uniț	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Ratin Rs.
65	KSRB M300 - 7.1: Planting permanent hedges including digging of trenches,60cm wide and 45cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of			149	19.84	296.00	17.76	313.7
,	4.65Cum per 100metres and supplying and planting hedge plants at 30cm apart complete as per specifications. A) Planting permanent hedges including digging of trenches MORTH Specification No. 307.							
- 1	KSRRB 300 - 50: Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by	2018 - 19 5	Sqm	146	19.56	148.00	2.34	150.3
t	mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour							
s 1 (specifications. MORTH / Chapter 3 (including loading, unloading and ead upto 20km)			,				
g @ in	KSRRB M2200-5.1: Providing and laying sement concrete of mix 1:2:4 with OPC @ 40kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.63Cum and fine aggregates @ 0.42Cum including cost of materials, labour, HOM, uring, form works, scaffolding and entering complete as per MORTH Section	2018 - 19 C	um	226	28.7.1	5421.00	325.26	5746.26
: a)	2200 & IS : 456)upto 5m height			5 2/8		•		e torane i
10	offer dams or bunds or islands as ay be necessary for piers and abutments	2018 - 19 Cu	ım	269	37.41.2	394.00	23.64	417.64
eta HO Be	undations, bailing out or pumping water aring excavation and until completion c. including cost of materials, labour, OM complete as per specifications. eyond 1.50m depth upto & including and depth.							
ma (un	SRB 5 - 1.1: Providing and constructing anite / trap / basalt rubble stone asonry in foundation with mud mortar acoursed), bond stones at 2m, apart in	2018 - 19 Cui	m	25	5.1	2358.00	141.48	2499.48
lab spe KB	ch course including cost of materials, our, curing complete as per edifications. S 5.1.12							
me app ram mat	RB 2.8: Providing and Filling in indation with granite / trap broken tal 100mm and down size, with proved sand including hand packing, mining, watering, including cost of all terials and labour with all lead and lift.	2018 - 19 Cun	n	7	2.15	2429.00	145.74	2574.74
Spe	nplete as per specifications. cification No. KBS 2.10.2			7				

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SN	0.	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate in Rs.
) 71)))) 	laying Design mix M35 with OPC @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.68Cum and fine aggregates @ 0.45Cum, with superplasticiser @3lts conforming to IS: 9103 - 1999 Reaffirmed - 2008 including cost of materials, labour, HOM, curing, form works, scaffolding and centering complete as per specifications. i) U pto 5m height		Cum	228	28.7.18	5562.00	333.72	5895.72
) ⁷²)	KSRRB M300-55: Construction of Sub-Grade and Earthen Shoulders with approved materials Gravel / Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300 - 2 complete as per specifications. including cost of earth, watering charges & compaction by vibratory roller to 97% of Modified Proctor Density MORTH Specification No. 305 CBR Value of Sub grade soil 10%	2018 - 19	Cum	147	19.62	349.00	20.94	369.94
1 ₇₃	primer coat for surfaces of medium porosity like cement stabilized soil base @0.90kg/Sqm over prepared surface with S.S bitumen emulsion using tanker fitted with spray set (excluding cleaning of road	2018 - 19	Sqm	Issue Rate	21.5	37.00	2.22	39.22
i_	surface) including cost of all material, labour, HOM complete as per specifications. Clause 501 of MORTH V revision	(3 ()						
74 	Green Pigmented Asphalt: Providing and laying green pigment with resign binder to concrete or asphalt surface by mechanical method, it comprises of a specially formulated binder system with a colour coated glass aggregate manufactured using a proprietary technology, provides a tactile warning system with a high friction, non - fading, consistent colour suface. environment friendly, sub angular, non-porous gives average service life of 5 years, installed effectively within 5-8 hours resulting in minimal traffic disruption. The finished surface to be level, uniform and free from streaks and holes, transporting the material, with all Lead & lift, including cost of all materials, labour, HOM of machineries compete as per specifications.		Sqm	BBMP Ap	-	1500.00		1500.00
	Milling the bituminous pavement surface up to a depth of 55mm using milling machine, to make a uniform surface without disturbing the base, cleaning the milled surface, including cost of all labour charges and hire charges of machineries, etc. complete, including stacking the milled material on the sides of road.	2018 - 19 S	qm ·	151	19.102	70.00	4.20	74.20

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Sl. No.	Description of Work	PW, P & IWTD SI Bengaluru Circle Reference	R, Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
76	KSRB 14.6-6: Providing and laying heavy duty interlock concrete paver block 75mm	2018 - 1	9 Sqm	103.00	14.7	1110.00	66.60	1176.60
	course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per Sqm over 50mm thick sand bed							1170.00
	(average thickness) and compacting with plate vibrator having 3 tons compaction							
	force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints					-		
1)	into its final level, including cost of							
8	machineries complete as per specification No. KBS							
7 F	KSRRB M800 - 13: Road Marking with	2018 - 19	Com	100				2 100 9
y E	with Reflectrising Glass Beads on Bituminous surface/ Concrete Surface	2013 - 13	Sqm	182	24.15	429.00	25.74	454.74
tl	Providing and laying of hot applied hermoplastic compound 2.5 mm thick neluding reflectorising glass beads at 250	10						
e: p	ms per Sqm area, thickness of 2.5mm is xclusive of surface applied glass beads as er IRC:35 Standards specified. The inished surface to be level, uniform and	- 6						
pe	ree from streaks and holes complete as er specifications. IORTH Specification No. 803.							
Pr	roviding and fixing of Retro-reflectorised autionary, mandatory, informatory sign a per IRC:67 made of high intensity							
ov su	er aluminium sheeting, 1.5 mm thick							
fou	omm x 75mm x 6mm firmly fixed to the cound by means of properly designed andation with M15 grade cement carete 45cm x 45cm x 60cm, 60cm below cound level as per approved drawing.							
600	O X 800mm - Type XI	2018 - 19 N	0.0	180	24.0.4	1007.00		
600	Omm Circle - Type XI	2018 - 19 N	and the same of				245.82	4342.82
900	Omm Equilateral triangle - Type XI	2018 - 19 N					187.32	3309.32
	mm Octagon Stop Board- Type XI	2018 - 19 No				3454.00 5047.00	207.24	3661.24

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Sl. No.		PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Ratin Rs.
79	Supply and fixing of Retro Reflective	2018 - 19	Sam	100		100		
	Single Arrow Road Name Signboard	2010 - 13	Dqm	190	24.59	13297	797.82	14094.8
	of size 1600mm X 900mm made out of				- 1			
	retro reflective sheeting conforming to			1 1				30a / 12 6
	Type-XI standards of ASTM D 4956-09			1 1				
	and as per IRC 67-2012 for full back			1 1		A T		
	ground of blue colour and white letters				1			
	and fixed over 4mm thick Alluminium Composite Material sheet having						- 1	
	minimum 0.5mm thick Aluminium skin on	-1			- [1	-3 11	
1	both sides with back side painted grey		1			2.		
	colour and fixed over back support frame	ti la	- 1				10.00	
1,	SS angle of 15mm X 20mm X 1.2mm,		- 1	- 1				
1	supported by 38mm OD stainless steel pipe all round in 304 grade and 2 no's of					1		
1	vertical posts of 50mm OD stainless steel				- 1	1		
r	pipe of 202 grade firmly fixing to the	a				Į.	4	•
1 1	round by means of properly designed		- 1		1			
1	oundation of size 450mm X 450mm V					. 1:		
10	500mm in 1:1.5:3 ratio cement concrete			- 1		- 1		
17	he background shall be blue in colour			- 1		. 1		
14	oth letters and border in white the item				- 1	. 4		
111	icludes earthwork excavation cost of all					1		
n	laterials, loading, unloading lead lift					1 :		
101	ansportation etc., complete as non		. 1		- 1			
a	rection of engineer incharge of work			1	- 1			
CI	ause 6.9 of IRC 67-2012 for Type-VI				-			
116	etro reflective sheeting from the sheeting					1		1000
m	anulacturer and a certified copy of text					1		
16	ports from indipendent test laboratory							
CO	morming to clause 6.7 of IRC 67-2012				- 1			
ın	cluding outdoor weather exposure report							
10	the retro reflective sheeting offered							
sn	all be submitted by the contractor for							
tec	chnical qualifician tender.							

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SI. No.	Description of Work	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rate
80	Supply and fixing of Retro Reflective	2018 - 19	Sqm	190	24.60	15785.00	947.10	16732.10
	Double arrow road name sign board			1		10100.00	347.10	16/32.10
	of size 2000mm X 900mm made out of retro reflective sheeting conforming to			1				
	Type XI standards of ASTM D 4956 - 09							
	& as per IRC 67 - 2012 for full back	1945						
	ground of blue colour & white letters and					-		
	fixed over 4mm thick		- 0					HE 5
	AluminiumComposite Material sheet						*	
	having minium 0.5mm thick Aluminium		ĺ			1		
	skin on both sides with back side painted							
	grey colour and fixed over back support							
	frame SS angle of 15mm X 20mm X							Surface L.
4	1.2mm, supported by 38mm OD stainless					1		100
	steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless	1			3	1	7	100
	steel pipe of 202 grade firmly fixed to the					- 1		
	ground by means of properly designed	- 1		1 1		1		79.70
	foundation of size 450mm X 450mm X					1	1	
	600mm in 1:1.5:3 ratio cement concrete						1	
	The background shall be blue in colour			- 10			1.10	
	with letters and border in white, the item						× 20	1912-11
	includes earthwork excavation, cost of all							14 50
	materials, loading, unloading, lead, lift, transportation etc. complete. as per clause							
	6.9 of IRC 67 - 2012 for Type-XI retro							
	reflective sheeting from the sheeting							
	manufacturer and a certified copy of text	1				ar ar a		2 11.00
	reports from indipendent test laboratory	1						200
	conforming to clause 6.7 of IRC 67 - 2012	1						
	including outdoor weather exposure report		.		1	1		
	for the retro reflective sheeting offered	9					-	
1	shall be submitted by the contractor for				1			
	technical qualifician in the tender.	1		-				
1	KSRRB M800-35: Supply and installation	2018 - 19 1	Joe	187.00	24.41	207.00		
1	of Moulded Shank Raised Pavement	2010 10	103.	107.00	24.41	337.00	20.22	357.22
1	Markers made of polycarbonate and ABS	1					4 2	
15	Acrylonitrile Butadiene Styrene) moulded		1		1	- 1-		
1	ody and reflective panels with micro		- 1	8		10 10 10 10		2. 2
i	nternal reflection of the light entering the							
1	ens face and shall support a load of 16000	- 1						
k	g tested in accordance to Specifications of		- 1		-			Days .
c	ategory A of MORTH Circluar No.	e E se la				= 1	200	
F	W/NH/33023/10-97, - DO III Dt		- 1	- 1				
1	1.06.1997. The height, width and length		- 1		1			
8	hall not exceed 50mm, 100mm and				1	1		
	02mm and with minimum reflective area	4 14	- 1			- 1	1	-
0	f 13Sqcm on each side and the slope to						, 1	
t	ne base shall be 35 degree. The strength					1.		
0	f detachment of the integrated cylindrical nanks, (of diameter not less than 19mm			1		1		
a	nd height not less than 30mm) from the					*		
	ody is to be a	s e					2	
	inimum value of 500kg. Fixing will be by	2 4319					1	
d	rilling holes on the road for the shanks to							
g	inside, Without nails and using epoxy		5			2 APEA		2
re	sin based adhesive as per						·	
	anufacturer's recommendation and	100					: :	
100	mplete as directed by the engineer.					100	W 10 10 10 10 10 10 10 10 10 10 10 10 10	

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No.		PW, P & IWTD S Bengaluru Circle Reference		SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat
32	Supply & Installation of Rigid Median	2018 - 1	19 Nos.	189	24.56	447.00		
	Marker made of tough, high impact resistant, injection -molded, thermoplastic			100	24.00	445.00	26.70	471.7
	body with an isosceles then and it			1 1		•	1 - 1 - 1	
	structure of length width and bainly							
	less than 10cm. 10 cm and 10				- 1			
- 1	respectively and thickness not loss the				1	1000		
- 1	1.0mm, the body structure about 1			1 1		1		
	rounded suitably. The plastic wood for		1	1 1				
	molding the Median Marker shall conform			1 1				
	W ASIM D256. The logo of 11-			1 1			1	
- 12	manufacturer shall be embossed on sittle			1 1			;	
	side of the body in the injection molding			1 1	- 1	1		
1	rocess. The Median Marker shall have							2.54
1	rectangular - shaped, fluorescent yellow			1	1.	. 1		
1	color retro - reflective sheeting of size not			1 1	1			
110	ess than 8.5cm*8.5cm and with fall.					e +:	1	4 8 W TO
1	effective micro prismatic cube comes-			1 1	- 1	2	to the last	
111	ts retro - reflective elements as per IRC	100		1 1	- 1	1	÷.	
10	2012.		-		- 1			
0	The retro - reflective sheeting shall be a	2						
a	ne or both sides of the Median Marker nd shall be edge protected with no				- 1			
e:	xposed edges which will prevent edge			1	- 1	- 1.	1 .	
li	fting, vandalism, sheeting damage, etc.		- 1			1		100
T	he Median Marker shall be fixed by a	-			1			
co	impination of	1 200	1		1			
gr	routing.		-	- 1				
K	SRRB M800-43: Installation of a steel							100,17
po	ortable barricade with horizontal rail	2018 - 19	Each	187	24.44	2490.00	149.40	0000 10
30	00mm wide, 2.5m in length fitted on a 'A'			. 1	- 1		140.40	2639.40
fra	ame made with 45 x 45 x 5mm angle iron				- 1	1		
se	ction, 1.5 m in height, horizontal rail			1		- 1		
Pa	inted (2 coats) with vellow and white	- 1					.	
str	ripes, 150mm in width at an angle of							
45	, 'A frame painted with 2 coats of		- 1.					
yel	llow paint, complete as per IRC: SP: 55 -			1	1	- 7		
200	01 complete as per specifications.		. 1	1		1		

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SI. No.	Description of Work	PW, P & IWTD SI Bengaluru Circle Reference		SR Pg.	Item No.	Basic Rate in Rs.	AW 6%	Total Ratin Rs.
	KSRRB M800 - 15: Road Delineators: Supply & installation of Vertical Delineator having wide angle cube corner micro prismatic non metallic reflective sheeting Conforming to Type - XI of IRC: 67 - 2012 with White and Red colour combination and having minimum of retro reflective exposed area of 125Sqcm on top slots and 35Sqcm on bottom slots and no edges shall be exposed for tampering. This tubular delineator shall have a core and shell construction, shell shall be made of tough, high impact resistant, injection - moulded, thermoplastic outer body and the inner core shell consist of power coated or painted mild steel of minimum thickness 1.0mm and core-shell structure shall be of height not less than 800mm. The metalic core of the delineator shall	2018 - 1	9 Nos.	182	24.19		111.12	1963.1
11	extend 300mm beyond the shell length from bottom for installing in the ground. The extended portion of the metallic core naving suitable slots to be fixed in M20 grade Cement Concrete of size 300 X 300 X 400mm with suitable anchoring rods for inhancing the grip, As oer IRC: 75 Specifications.							
in C	ransplantation and Treatement for the rees coming in the widened portion of arriageway as per directions of Engineer a charge	ž :	Each	BBMP App		19900.00		19900.00
gr co or sp A	ring for Lighting / Power Circuit sing one of FRLS PVC insulated 1100V rade, multistrand Copper Wire with low inductor resistance single core wire in one or concealed system of wiring with secified IS: 694 conforming to the latest mendments 5 Sqmm (from Pole Box to Light	2019 - 20, I Electrical Works	Mtr.	6.00	2.3.3	32.00		32.00

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SI. No.	Description of Work	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rain Rs.
37	Supply of LED Streetlight Luminaire	2019 - 20,	Nos	67.00	10.00			
	with Pressure Die Cast Aluminium	Flant : 1177 1	1105.	67.00	12.8.6	12300.00	100	12300.
	Housing Body for Optimal Thermal Dissipation. Lamp Compartment		-	1 1				
	Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser	7-91/0 1 3						
	with Injection moulded Polycarbonate	1941		1 1				
- 1	Material, delivering superior Light				1	E 30		
	Output. Rate Life Burning hrs. 50000 hr	4.5		1				
	@ Lumen Maintenance of 70% Maximum				1			
- 1	Light Intensity should be between col			1 1	-			
	degrees and 70 degrees, CCT > 5500K, IP			1 1		1		
	66 Optical and Electrical Compartment							
	and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9		- 1					
1	with Mains, Surge Protection minimum					3		
1	SKV along with Over Voltage / Overload,							
15	Short Circuit / Miss - Wiring Protection.	1				3		
1	compatible for Pole Mounting with Outer	- 1			- 1		8	
1	Dia of 40mm to 50mm. Universal Voltage							
11	Driver to operate wide Voltage range from							1 1
1	100V to 270V 50 / 60 Hz Application							
10	ompliance to IS: 10322 / IEC 60598 LM				- 1			
11	9 and LM 80 adherence with Roll UL							
					1		3.31	
T	op access Street Light with Single Screw					- 7		Comment of the
to	o ensure ease of maintenance at the Sight				1			
S	ite Location with minimised minimal		- 1					
1	ools. LED Light Fixture with 150 Watts		- 1	- 1				
E	ystem Power consumption. LED							
T	fficiency > 130 lm / w, nominal CRI > 75.	-						
						- 1		
F	lanufacturer should have in house acility accredited by NABL /				- 1	1		
C	PRI and any Government certified		.					
As	gency and Design and		- 1					
De	evelopment Facility certified by ISO							
90	01: 2008. Housing with			1				
Su	applier Word Mark / Name shall be			- 1	1			
en	graved / embossing on the		- 1		1			
Die	e Cast Housing / Body Part. Warranty of							201
12 1	ears against any							
Ste	anufacturing Defect working under							
	nditions as mentioned above should be							7
giv	en by LED							
Ma	nufacturer and Cree / Nichia /							- 110
Lui	mileds / Osram Make LED							
	irce.							36
LE	D Streetlight 150 Watts		1	- 1				

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Sl. No.		PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rat in Rs.
88	Supply of LED Streetlight Luminaire with Pressure Die Cast Aluminium		Each	67.00	12.8.1	1840.00		1840.0
	Housing Body for Optimal Thermal Dissipation. Lamp Compartment comprising of Anti Glare Clear Diffuser with Injection moulded Polycarbonate Material, delivering superior Light Output. Rate Life Burning hrs. 50000 hr. Lumen Maintenance of 70%, Maximum			*				
	degrees and 70 degrees, CCT > 5500K, IP 66 Optical and Electrical Compartment and Impact Resistance of Complete Luminaire > IK08, Power Factor > 0.9					ω.		
	with Mains, Surge Protection minimum 5KV along with Over Voltage / Overload, Short Circuit / Miss - Wiring Protection. Compatible for Pole Mounting with Outer Dia of 40mm to 50mm.		1.85	5 6				
	Universal Voltage Driver to operate wide Voltage range from 100V to 270V 50 / 60 Hz Application. Compliance to IS: 10322 / IEC 60598, LM 79 and LM 80 adherence with RoHS UL approved MCPCB. Top access Street Light with Single Screw to ensure ease of maintenance at the Sight Site Location with minimised minimal Fools. LED Light Fixture with 25 Watts System Power consumption. LED Efficiency > 130 lm / w, nominal CRI 175. Luminaire							
C	Manufacturer should have in house acility accredited by NABL / PRI and any Government certified gency and Design and							
D 90 Si er Di of M	evelopment Facility certified by ISO 201: 2008. Housing with upplier Word Mark / Name shall be ugraved / embossing on the tie Cast Housing / Body Part. Warranty 2 Years against any anufacturing Defect working under							
St Co giv M:	andard Electrical enditions as mentioned above should be en by LED anufacturer and Cree / Nichia / mileds / Osram Make LED urce. ED Streetlight 25 Watts	•						

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Sl. No.		PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Ratin Rs.
	Fabricating, supplying and erection of 11m long hot dip Galvanized Octagonal Pole with BSEN 10025 grade S 355 JO steel plate of shaft, IS: 2062 for base plate with door opening arrangements, including suitable boards, bakelite sheet and MCBs as per IS Specification suitable to withstand the Wind Speed of 47m / sec for 11m Pole in single section and single joint welded as per IS: 9595 / IS: 10178AWS having dimensions Bottom 210mm, Top 90mm with 3mm thick, suitable base plate and 4Nos. 11m long J Bolts along with Template and Pole shall be Hot Dip Galvanized in single dipping with not less than 65micron as per ASTM - A123 and 153, etc. (excluding Foundation) as per drawing appended.	Flooring 1 III	Each	13.00	4.2.9	20698.00		20698.0

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No.	Description of Work	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg.	Item No.	Basic Rate in Rs.	AW 6%	Total R
90	Fabrication, Supplying, Erection, Testing	2019 - 20	Na	15.00				
	and Commissioning of 12Mtrs / 12 5Mtrs	Electrical Works	, INO.	15.00	4.5.1	105600.00		105600
	long Polygon High Mast with Single	TOTAL	'l				e:	
	Multiple Telescopic Sections having		1					
4	(minimum overlap distance of 1.5 times of		1	1		1 1		
	top section) thickness as per BSEN 10005		1			1 1		
	Grade S355 JO / ASTM A572 - 50 Steel		l	-		1 1		
	Sheet Plate for shaft suitable to withstand					1		
	a wind velocity of 47 m / sec as per IS: 875					20_		
	Part 3 (as per GA Drawing). Base Plate as						2 11 2 3	
	per IS: 2062 / ASTM A572 - 50. The Mast							
- 1	shall be Galvanized in single Hot Dip as							
	per BSEN ISO 1461 / ASTM A123 with an							
	average 70 microns as per IS: 2629 and					1		
	welded as per BS: 5135 Single L - Seam	- '				8.5	Acres 1	
	Joint. The Mast shall have 2 way Head							
	Frame with Die Cast LM - 6 Pulleys,							
1	Stainless Steel Axle, Phosphorus Bronze							
1	pearing Bush press fitted with seperate					1	- 1	
18	guides for 2 runs of 5mm dia, Stainless							
15	Steel Wire Rope of AISI 304 Grade 7/19-							
10	Jore, (Factor of Safety as per TR No. 7)		- 1	1.34	2. 2.			4 4 2.00
12	5.5 Sqmm EPR insulated PCP sheethad							
It	railing power cable housed inside the		- 1					
1	Sottom Shaft of Mast with Door having		- 1			1		
1	ocking Arrangement.		- 1		- 1			
17	The Mast shall have Manual / Power Tool						100	
(suitable Reversible Geared Motor	1	- 1	-	- 1			
0	perating on 230 / 415V, 50 Hz, shall be			1				
p	rovided above 15m		- 1	1				
N	fast). The Mast shall have Lantern of 2				- 1	1	1	
S	egments, suitable dia with		-	- 1	1			274
M	aximum Load Carrying Capacity as per	1		1		8.00		
IS	S: 1239. The Mast shall	T I		1		1	7	
be	e erected on existing RCC Footing. The		- 1				* 6	
M	ast shall be supplied with		- 1		- 0	- 1		
3r	nm thick template, Lightning Arrester of		1		1		_	
1.	2m length Galvanized			1	.			
Pi	pe with Top Arrow fitted on top of the		- 1	- 1				
H	ead Frame Cover and GLS					T 2 .		
Ty	pe Aviation Twin Lamps Fitting with							
W	ring complete (excluding					N		
Fo	undation) as per Technical Data.							
					1	1		
12	Mtrs / 12.5 Mtrs - Top 100mm an	4						
Bo	ttom 310mm dia					1 3		
Su	pplying, and fixing of Hot Dip	2019 - 20,		10.00				
Ga	lvanized M. S. Bracket suitable for	Electrical Works		16.00	4.7.1	1689.00		1689.00
Ou	tdoor Luminaries and mounted on	Dicetrical Works						
Oct	togonal Pole using necessary Bolts			1				
Nu	ts, etc. complete.	8		1		1 1		4 2 11
aleste.								
Sin	gle Arm Bracket with 1000mm							1
Sta	ndard 40 / 50 mm dia					1 + 1		
Sup	plying, and fixing of Hot Dip	2010 00 5	,	10.61		1		
Sal		2019 - 20, Eac Electrical Works	n	16.00	4.7.6	3696.00		3696.00
Dut	door Luminaries and mounted on	Diecuicai Works	-					
Oct	ogonal Pole using necessary Bolts					* }		
Jut	s, etc. complete.							
		4.00				1		
)ot	ible Arm Bracket with 2000mm					1 .		11 11
to	ndard 40 / 50 mm dia				1	1	1	

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SI.	The state of the s	PW, P & IWTD SR, Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rain Rs.
93	Supplying, fixing and wiring Earth Electrode for grounding of Lifts, Transformers, DG Sets, etc. using 40mm dia 2.9mm thick 2.5m long GI Pipe with GI Funnel with Mesh and suitable Size Reducer fixed on the Top of the Earth Electrode. The Funnel should be enclosed in a CC Chamber of 400 X 400 X 400mm with a Cast Iron Cover. The Earth Electrode shall have Staggered Holes of 12mm dia and the Electrode should be covered 150mm alround with Alterate Layers of Salt and Charcoal from the bottom of the CC Chamber. The Connection from the Electrode is to be established through GI Strip using GI		No.	40.00	6.2			4150.
14	Supplying and running of GI / Copper Strips for grounding Connections using necessary Fixing Materials as required.	2019 - 20, N Electrical Works	Mtr.	40.00	6.3.1	75.00		75.0
5	25 X 3mm GI Strip Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistant PVC insulated, PVC	2019 - 20, N Electrical Works	Itr.	40.00	6.4.2	130.00		130.0
	extruded Inner Sheath armoured UG LT Cable as per IS: 1554 (Part 1) or IS: 7098 Part 1. Armouring Strip Thickness in Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 3975	TOTAL TOTAL			-			
	Supplying of 1.1 KV LT UG Cable XLPE or Heat Resistant PVC insulated, PVC extruded Inner Sheath armoured UG LT Cable as per IS: 1554 (Part 1) or IS: 7098 Part 1. Armouring Strip Thickness in Average + 5% and Resistivity 14 Ohms / Km (Max) as per IS: 3975	2019 - 20, M Electrical Works	tr.	40.00	6.4.4	150.00		150.00
s	Jabour Charges for laying of 1.1 KV Class JG Cable in existing Trench GI Pipe / toneware Pipe / on Wall / on Pole as equired.	2019 - 20, Mt. Electrical Works	r.	41.00	6.5.1	11.88		11.88
1	n existing Trench / Duct Sqmm to 16 Sqmm							
St	G Cable in existing Trench GI Pipe / coneware Pipe / on Wall / on Pole as quired.	2019 - 20, Mtr Electrical Works		41.00	6.5.6	30.00		30.00
0	n Wall / Structure						*	

Sl. No.		PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rain Rs.
99	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench to the required ground level and consolidating, etc.	2019 - 20, Electrical Works		41.00	6.6.1	76.00		76.
	In Soil (Ordinary)							
100	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench to the required ground level and consolidating, etc. In Soil (Hard)	2019 - 20, Electrical Works	Mtr.	41.00	6.6.2	102.00		102.0
101	Digging of Trench of 0.6m Deep X 0.5m							
	Wide refilling the Trench to the required ground level and consolidating, etc.	2019 - 20, Electrical Works	Mtr.	41.00	6.6.3	82.00		82.0
	Cutting Road Surface							
- 1	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench to the required ground level and consolidating, etc. Asphalt Cutting	2019 - 20, Electrical Works	Mtr.	41.00	6.6.4	113.00		113.0
	Digging of Trench of 0.6m Deep X 0.5m Wide refilling the Trench to the required ground level and consolidating, etc. C. C. Cutting	2019 - 20. I Electrical Works	Mtr.	41.00	6.6.5	205.00		205.0
	Supplying and fixing of Heavy Duty Cable Glands suitable for UG Cable of 1.1 KV Class (metal only) 25mm dia	2019 - 20, E Electrical Works	ach	42.00	6.11.2	84.00		84.00
t C A	Supplying and fixing of Class A (Medium Outy) GI Pipe of Wall Thickness not less han 3.25mm on Pole / Wall / Drain Crossing with necessary Clamping arrangements for UG Cable of 1.1 KV.	2019 - 20, M Electrical Works	Itr.	42.00	6.9,5	890.00		890.00
F P	able Joint with Epoxy Resin including erruls and other Jointing Materials for VC Insulated and PVC Sheathed Steel ape, Wire armoured Aluminium onductor 4 Core Cable of 1.1 KV Grade.	2019 - 20, Pe Electrical Works	er Kit	42.00	6.12.2	1280.00		1280.00
10) / 16 Sqmm	"						
th	applying Epoxy Resin and Covering te Cable Joint	2019 - 20, Pe Electrical Works	r Kg	43.00	6.14	870.00		870.00
Su	apply and wrapping the Conductor ith Camabrick Tape Roll	2019 - 20, Per Electrical Works	Rol	43.00	6.15	118.00		118.00
cri	applying tinned Copper Lugs and mping and wiring to Terminal Point for ire.	2019 - 20, Electrical Works	eh	43.00	3.17.5	8.00		8.00
10	Sqmm					1		

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SI. No.		PW, P & IWTD SR. Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Rain Rs.
110	Supplying tinned Copper Lugs and crimping and wiring to Terminal Point for Wire.	2019 - 20, Electrical Works	Each	43.00	6.17.6	12.44		12.
	16 Sqmm							
	Supplying and running GI / Copper Conductor for grounding and (along with other Wires in Conduit System of Wiring) using necessary suitable size Clamps, Nails, Guttas / Spacers, etc.	2019 - 20, Electrical Works	Mtr.	44.00	6.18.3	19.00		19.0
	8 SWG GI Wire							
6	Fixing Halogen / Metal Halide / SVL / IL / LED Flood Light fitting over existing Pole / Wall Ceiling including Clamps, Bolts, Nuts and Wiring using suitable capacity wires.	2019 - 20, Electrical Works	Each	79.00	14.5	175.00	7	175.0
13 5	Supplying of Multi Function Digital	2019 - 20, F	ach	29.00				
t H	ype Display of Voltage, Current, Frequency, Power, Power Factor, KVA, KWH, KVAR suitable for 3 Phase 4 wins	Electrical Works	Jach	29.00	5.33	7750.00		7750.00
I r	Protection and completely wired as equired with Communication Port and Class 0.5s Accuracy.	,					•	
T	supplying, fixing and wiring 50 / 5 to 400 5 Amps 5VA burden Current ransformer, Class 0.5 Accuracy with ape wound.	2019 - 20, Ea Electrical Works	ach	29.00	5.34	468.00		468.00
co	oard indicating Lamp with required lour suitable for 230 / 440V A. C. 50HZ	2019 - 20, Ea Electrical Works	ch	29.00	5.38	430.00		430.00
Su	pplying and fixing Microprocessor sed Electronic Timer (without	2019 - 20, Ea	ch	32.00	5.47	1925.00		1005.00
Bo	ntactor, Din Mounting using necessary lts. Nuts and Washers, etc.) 3 - 120 secting.	Electrical Works						1925.00
Sup	pply and fixing of 4 Pole Power	2019 - 20, Eac	h	26.00	5.13.3	1900.00		
nec Wir	ntactor with NO / NC Contacts on sting Wood / Panel Board using essarry Bolts, Nuts, Washers and ring, etc. complete with AC - 3 Rating as per IS: 13947	Electrical Works		20.00	,10.5	4200.00		4200.00
	Amps							
Sup	lying and fixing Miniature Circuit	2019 - 20, Each	,	27.00 5.	17.0	200		
and	'C' Type Curve, Indicator ON / OFF	Electrical Works		27.00	17.9 2	397.00		2397.00
Ener Bres	rgy Cross - 3 with Short Circuit aking Capacity of 10K and complete ng as required conforming to IEC.						* 1	
n c	omer							
50 - 6	63 Amps TPN			0.00	* K #	8	1 3 3	* 1.4*

SI. No	Description of Work	PW, P & IWTD SR Bengaluru Circle Reference	Unit	SR Pg. No.	Item No.	Basic Rate in Rs.	AW 6%	Total Ra
119	Suplying and fixing Miniature Circuit Breakers on existing MCB Distribution Boards using necessary Fixing Materials and 'C' Type Curve, Indicator ON / OFF, Energy Cross - 3 with Short Circuit Breaking Capacity of 10K and complete Wiring as required conforming to IEC: 60898. Out Going 50 - 63 Amps TPN	Elect. 1377 1	Each	27.00	5.17.9	2397.00		2397.0
	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with Transparent Polycarbonate Lid, Shock Proof, IP 65 (Weather Proof), Rust Proof, Dust Proof, Water Proof, Corrosion Proof having internally Embedded Gasket on both Lid and Flap suitable to fix Single Phase / Three Phase Energy Meter in suitable Base Plate and having a Provision for Fuse / MCB Cutout with suitable Transparent Hinged Flap Opening for operating MCB along with complete Tamper Proof SEALING	2019 - 20, Electrical Works	Each	31.00	5.44.3	5713.00		5713.00
	300 X 600 X 170mm							
1	Interlinking Copper Strip, Copper Wires with Lugs, Bolt and Nut between Busbar and Switch Fuse Unit, MCBs.	E	ach	Market F	Rate	10000.00		10000.00



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Project: Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City

Rate Analysis as per BWSSB SR 2017 - 18

SI. No.	Description of work		SR Page No.	Item No. and Code	Basic Rate in Rs. including GST	Basic Rate in Rs excluding GST
1	Supplying, laying and jointing HDPE Pipes of specified grade and conforming to IS: 4984 - 1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15cm. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for:	Rmt		*		
	90mm dia Pipe PE - 100 PN 6.0		125	6.1 K060A	287.0Ò	256.25
	160mm dia Pipe PE - 100 PN 6.0		125	6.5 K060E	751.00	670.54
	200mm dia Pipe PE - 100 PN 6.0		125	6.7 K060G	1138.00	1016.07
: a : a : a : a : a : a : a : a : a : a	Supplying PVC Ring Tight Pipes conforming to IS: 14985 - 2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour, lead & lift including encasing the pipe alround to a depth of not less than 15cm. with soft gravel or selected earth available from the excavation, etc. complete and giving necessary by draulic test to the required pressure as per ISS Contractor will make his own arrangements for procuring water for testing), etc. for 15cm outer dia, 10 kg/Sqcm & class 5	n.	133	1.1 M010A	45.00	40.18



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Data Rate for Precast RCC Median 及四年 的一位 的一位 是一位 是一位 是一位

Data Rate for Precast RCC Median

Providing Precast RCC Medians of 2m Length, 0.1m Top Width, 0.35m Bottom Width and 1m Height of M35 Grade included complete as per the directions of the Engineer - in - Charge.

SI. No.	sidering for 30m i.e., 15 Units of each 2.0m I Description of work	Unit	No.	Length in m	Breadth	Depth	Total	Rate i	n Amount
1	Materials:			III III	in m	in m	Quantit	y Rs.	Rs.
А	KSRRB M2200 - 5.18: Providing and laying Design Mix M35 with OPC @ 390kgs, with 20mm and down size graded granite metal Coarse Aggregates @0.68cum and Fine Aggregates @ 0.45cum, with Superplastisiser	Cum					1		
	@3lts conforming to IS: 9103 - 1999 Reaffirmed 2008 including Cost of Materials, Labour, HOM, Curing, Form Works. Scaffolding and Centering complete as per Specifications. i) Upto 5m height					3.			
	Page No. 228, I. No. 28.7.18 of PW, P & IWTD S For Medians	R 2018			rcle)				
		_	15	2.00	0.29	5	8.8	5	
	KSRRB M2200 - 6: Providing TMT Steel T					Say	8.88		52177.
i i i i i i i i i i i i i i i i i i i	Straightening, Cutting, Bending, Hooking, Placing in Position, Lapping and / or Welding wherever required, Tying with Binding Wire and Anchoring to the Adjoining Members wherever necessary complete as per Design Laps, Hooks and Wastage shall not be neasured and paid), Cost of Materials, Labour. HOM, complete as per Specification. MORT&H Specification No. 1600 & 2200 EMT Bars Fe 500 Tage No. 229, I. No. 28.8.2 of PW, P & IWTD SR 2	2018 - 1	.9, Beng	aluru Circle	e)				
10	fain Bar 10mm dia at 180mm c/c		167	2.55	0.613	-	261.25	-	
D	sistribution Bar 8mm dia at 200mm c/c		-				201.20		
	Dat Girin dia at 200mm c/c		13	30	0.393	-	153.12		
							414.37	Kg	
		-	-				0.414		
-							0.414	72326.98	29970.28
H	roviding GI Pipes 50mm dia B Class to make m oles for Lifting and Erection of Precast edian Segments								
	1 No 400 C-1 N 0174 P	2 8+ IW	TD SR 2	018 - 10 P	ongolum, Ci	1->			
	1. No. 499, Code No. 0154, Page No. XIX of PW. F							4	
	1. No. 499, Code No. 0154, Page No. XIX of PW, F	15	0.00	2			0.000		
(S	eparation of Base for Fixing of Precast LS	15	0.00	2		0.059 1 Qty	0.059	296.44	17.46

್ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

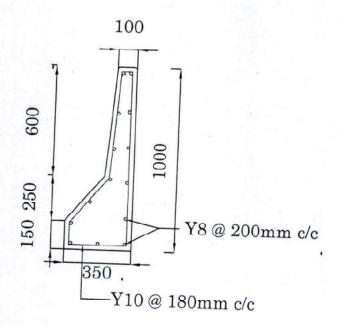
Costs

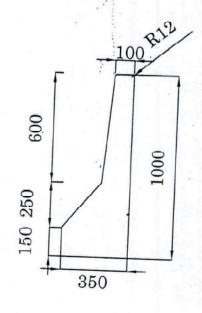
е	Providing Steel Bolts and Nuts for Anchoring of Precast Medians to the Road			a		T	T .	T^{\perp}	
	(Sl. No. 414, Code No. 0719, Page No. XVI of P	W. P &	IWTD SE	2018 - 1	9 Bangalu	mi Cimala)			
		2 X 10	1	1 2010 1	J. Dengalu	ru Circie)			
		2 11 10	1				30	71.19	2135
			-		-			Total (A)	85090
2	Transportation and Erection Charges	Nos.	Hours		Days		Total	Rate in	Amount
a	Providing Crane Facility for Loading, Lowering, Hoisting and Erecting, etc. including Fuel / Consumable T&P.						Quantity	Rs.	Rs.
	(Sl. No. 69, Code No. 1092, Page No. L of PW, P	& IWT	D SR 201	8 - 19, Be	engaluru Ci	rcle)		10	V-1011
b	Crane Operator Charges	1		9			9	424.00	3816.
	(Sl. No. 62, 63 Page No. LIV Zone, 1 Laboration		-						3010.0
	(Sl. No. 62, 63, Page No. LIX, Zone - 1 Labour R Grade I	ates for	South Zo	one of PW	, P & IWT	D SR 2018	8 - 19, Beng	aluru Circle	9)
	Grade II	1	•			2	2	466.2	932.4
		- 1				2	2	456.2	912.4
	Labour Charges towards Mazdoor Heavy			-					+ 1 - 4 - 7
	(Sl. No. 5, Page No. LVI, Zone - 1 Labour Rates	for Sou	th Zone of	PW, P&	IWTD SR	2018 - 19	, Bengaluru	Circle)	17.
		1				5	5	446.2	2231.0
	Providing Tipper for Transportation of Precast Medians from Casting Yard to Site	1		9			. 9	203.00	1827.0
	(Sl. No. 73, Code No. 1096, Page No. LI of PW, F	& IWI	D SR 201	8 - 19, Be	engaluru Ci	rcle)			
			,	Fotal Ca	-4.4	37		Total (B)	9718.8
	LULIN TOTAL			Lotal Co.	stiowards	Add 100	ls and Lat	our (C)	94809.3
						Add 10%	for Contract	ors Profit	407.5
				-		Add 10%	Over head		777.8
			1				wards One	nd Total	95994.81



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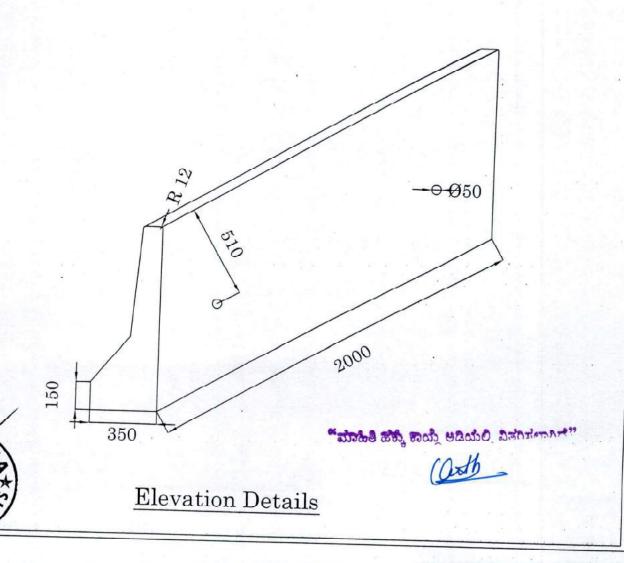
Precast RCC Median





Reinforcement Details

Dimension Details



Data Rate for Precast RCC Slab of 100mm thick

Data Rate for the Precast Slab of 100mm thick

Providing and fixing Precast RCC Slab of 100mm thick over Box Drain / Service Chambers, etc. in Cement Concrete M20 using Graded Granite Jelly 20mm and down size with Steel Reinforcement and Pointing for Joints with 1:3 Cement Mortar including Form Work, Lift Charges, Curing and Concrete Finished Surfaces on both sides, etc., complete and as per the directions of the Engineer - in -

No.	sider 10 Sqm (Slab Size 1.0m X 0.5m a Description of work	Unit	No.	T am mile	n .	-			
		Cint	140.	in m	Breadt	13.5 - 3.11	The state of the s	Rate	in Amou
	Materials:			In m	in m	in m	Quanti	ty Rs.	Rs.
ı	KSRRB M2100 - 15.2: Providing and la	ying Cum	_			-			
	Reinforcement Com		1 7					2	
	Concrete M20 with OPC @ 320 kgs.	with					1		
	20mm and down size graded granite m	etal				1	1		- 1
	Coarse Aggregates @0.69cum and I	ine				1			
	Aggregates @ 0.46cum,	vith					82	1	
	Superplasticizer @31ts conforming to	IS:		1			20	1	
	9103 - 1999 Reaffirmed - 2008 in O	pen					1 .	1.	
	Foundation complete as per Drawing	and		1 1				- 1	- 1
	Technical Specifications including Cost	of	- 1	1 1				1	
	all Materials, Labour, HOM, Curing, Fo Works, Scaffolding and Centering compl	rm		1 1			1	1	
1	as per specifications.	ete				l	1		
- 1	MoRT&H Specification No. 1500, 1700	اه		1 1		1	1		
	2100			1 1		1			
	Page No. 222, I. No. 27.27 of PW, P & IW	TD SR 2017	3 . 19 Ro	ngolum. Ci					
	For Slab	DIC 2016	20						
			20	0.50	1.00		-	.00	
			-			Say	1.	00 5148.4	12 51
1	KSRRB M2200 - 6: Providing TMT Ste	Ol Tonna	-						- 01
1.5	remorement for RCC Work include								
15	otraightening, Cutting, Bending Hookir		1				1	1	
1	racing in Position. Lanning and								
1	welding wherever required Twing wi	44			- 1		1		
1.	officially were and Anchoring to	20			- 1				1
12	adjoining Members wherever necessary			1	1		1	1	
l C	omplete as per Design (Lang Hooks or		1 1						
1 4	vastage shall not be measured and paid	N.I	1 1						
10	ost of Materials, Labour HOM complete	· ·						1	
la.	s per specification.				-				
I.V.	IoRT&H Specification No.1600 & 2200			1.				1	
T	MT Bars Fe 500					- 1			
	MI Bars re 500					- 1			
P	age No. 229, I. No. 28.8.2 of PW, P & IWT	D CD core							
1.	fain Bar 10mm @ 100mm c/c	D 5K 2018		galumu Cin	(ale)				1
M	alli Bar 10mm @ 100mm c/c	7						1	
M	adiii Bar 10mm @ 100mm c/c		100	1.00	0.613		61.38	5	
	Jar 10mm & 100mm c/c					-	61.38	5	
	istribution Bar 8mm @ 125mm c/c					-			
	Jar 10mm & 100mm c/c		100	1.00	0.613	-	31.41		
	Jar 10mm & 100mm c/c		100	1.00	0.613	-	31.41 92.76		
	Jar 10mm & 100mm c/c		100	1.00	0.613		31.41 92.76 0.093		
Di	istribution Bar 8mm @ 125mm c/c		100	1.00	0.613	- Say	31.41 92.76	.	7233.
Po	istribution Bar 8mm @ 125mm c/c	Cum	8	1.00	0.613	Say	31.41 92.76 0.093 0.10	72326.98	7233.
Po	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials:		100	1.00	0.613		31.41 92.76 0.093	72326.98	7233.
Po Ma	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal	Cum	8 20	1.00	0.613	Say	31.41 92.76 0.093 0.10	72326.98	7233.
Po Ma	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S	Cum	8 20	1.00	0.613	Say	31.41 92.76 0.093 0.10	72326.98	7233.
Po Ma Ce: (SI San	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S nd 1.07 per cum	Cum Quintal R 2018 - 19	20 Bengalu	1.00 10 1.00 uru Circle)	0.613	Say	31.41 92.76 0.093 0.10 0.010	72326.98	
Po Ma Ce: (SI San	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S nd 1.07 per cum	Cum Quintal R 2018 - 19	20 Bengalu	1.00 10 1.00 uru Circle)	0.613	Say	31.41 92.76 0.093 0.10	72326.98	
Po Ma Ce: (SI San	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S	Cum Quintal R 2018 - 19	20 Bengalu	1.00 10 1.00 uru Circle)	0.613	Say	31.41 92.76 0.093 0.10 0.010	72326.98	24,0
Po Ma Ce (Sl. San (Sl.	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S.	Cum Quintal R 2018 - 19	20 Bengalu	1.00 10 1.00 uru Circle)	0.613	Say	31.41 92.76 0.093 0.10 0.010	72326.98	24,0
Po Ma Ce (Sl. San (Sl.	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S	Cum Quintal R 2018 - 19 Cum R 2018 - 19	20 Bengalu	1.00 1.00 1.00 Iru Circle)	0.613	Say 0.012	31.41 92.76 0.093 0.10 0.010 0.05	72326.98 490.63 1680.95	24,0 17,3 12422,2
Pool Market (SI. San (SI.	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S. bour Charges	Cum Quintal R 2018 - 19	20 Bengalu	1.00 10 1.00 uru Circle)	0.613	Say 0.012 ys To	31.41 92.76 0.093 0.10 0.010 0.05	72326.98 490.63 1680.95 Total (A) Rate in A	24.0
Pool Market (SI. San (SI. La)	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S. bour Charges Fixing of Precast RCC Slab	Cum Quintal R 2018 - 19 Cum R 2018 - 19	20 Bengalu	1.00 1.00 1.00 Iru Circle)	0.613	Say 0.012 ys To	31.41 92.76 0.093 0.10 0.010 0.05	72326.98 490.63 1680.95 Total (A)	24,0 17,3 12422,2
Po Ma Ce: (SI. San (SI. Lat	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S. bour Charges Fixing of Precast RCC Slab son Class I (With Tools)	Cum Quintal R 2018 - 19 Cum R 2018 - 19	20 Bengalu Ho	1.00 1.00 1.00 aru Circle) aru Circle)	0.613 0.393 0.04	Say 0.012 ys TQ	31.41 92.76 0.093 0.10 0.010 0.05 0.01	72326.98 490.63 1680.95 Total (A) Rate in A	24.1 17.5 12422.2
Po Ma Ce: (SI. San (SI. Lat	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S. bour Charges Fixing of Precast RCC Slab son Class I (With Tools)	Cum Quintal R 2018 - 19 Cum R 2018 - 19	20 Bengalu Ho	1.00 1.00 1.00 aru Circle) aru Circle)	0.613 0.393 0.04	Say 0.012 ys TQ	31.41 92.76 0.093 0.10 0.010 0.05 0.01	72326.98 490.63 1680.95 Total (A) Rate in A	24.1 17.5 12422.2
Poor Mas (Sl. Maz	istribution Bar 8mm @ 125mm c/c pinting in CM (1:3) over Drain Slab aterials: ment 510 Kg i.e. 5.1 Quintal . No. 123, Page No. V of PW, P & IWTD S. nd 1.07 per cum . No. 51, Page No. III of PW, P & IWTD S. bour Charges Fixing of Precast RCC Slab	Cum Quintal R 2018 - 19 Cum R 2018 - 19, No.	Bengalu Bengalu He	1.00 1.00 1.00 Iru Circle) Durs	0.613 0.393 0.04 Da	Say 0.012 ys To Q 3 2018	31.41 92.76 0.093 0.10 0.010 0.05 0.01	72326.98 490.63 1680.95 Total (A) Rate in A Rs. F	24.1 17.2 12422.2 Amount i

Page 1 of 2

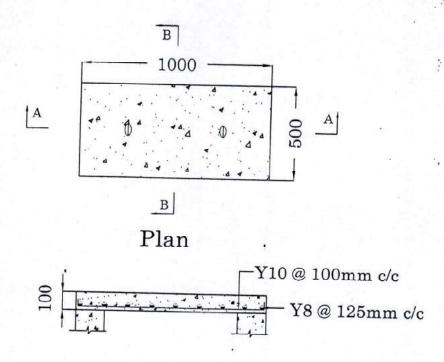
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3.2	for Pointing	T	1						
a	Mason Class I (With Tools) 4 per 10	1	10010					T . T	-
	(Si. No. 12, Page No. LVI, Zone - 1 Labour P.	aton for C	0.010				0.038	466.20	17.90
)	Mazdoor Light / Bisti 1 per 1.0 cum	1	0.010	e of PW	, P & IW	TD SR 20	18 - 19, Bengal	uru Circle)	11.00
	(Sl. No. 6, Page No. LVI, Zone - 1 Labour Rat	tes for So	0.010	-CDIII	D 4 1		0.010	446.20	4.28
		000 101 00	dth Zone	of PW,	P & IWTI	O SR 2018	- 19, Bengalu	ru Circle)	7.20
	Transportation Charges (Trans-1-1)			AND DESCRIPTION OF THE PERSON					
_	(Sl. No. 37, Page No. XLIX of PW, P & IWTD	SR 2018	10 Par		O' I	5		161.00	805.00
	CENTRAL TEST	010 2010	- 19, Den	galuru	Circle)	1			500.00
				T-1-1				Total (B)	4011.19
				Total	Cost tow	ards Ma	terials and L	abour (C)	16433.47
-						A	ld 10% Contra	ctor's Profit	405.25
						Ad	d 10% Overhe	ad Charman	405.25
_	1. 高点的A 20			-	Total	for 10 Sq	m of Precast	RCC Slab	17243.97
		-						Sou	17243.00
					Total f	or 1 Sqm	of Precast R	CC Slab	1724.00
						for 10 Sq	m of Precast of Precast R	RCC Slab	

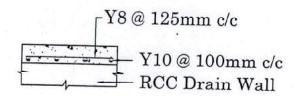
ANAS PACE STREET

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Precast RCC Slab



Section A - A



Section B - B

TAR NA CAR

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Cests

Data Rate for MS Bollards

Data Rate for MS Bollards

Supply, Fabrication, Painting and Fixing of Mild Steel (MS) Items such as Horizontal and Vertical Gratings, Flower Baskets, Cycle Stands, Tree Guards, Edge Angles, Bollards, etc. and any other Items as specified in Drawings or as approved by the Engineer - in - Charge, complete as per Specifications including all Leads and Lifts and as per the

Sl. No.	Description											
		Unit	Quantity	Rate in Rs.	Amount in Rs							
1	Materials				I Ke							
	MS Plates											
		Kg	1	37.29	37.							
	(Sl. No. 209, Code No. 0257, Page No. VIII of PW, P	& IWTD SR	2018 - 19, E	Bengaluru Circ	ile)							
			,	Total (A)								
	Labour			1-7	37.							
а	Fabricator	Nos.	Days	Rate in Rs.	Amount in Rs.							
		1	0.12	466.2	55							
	Circle)	IWTD SP 20	10 10 D									
b	(Sl. No. 112, Page No. LXII, Zone - 1 Labour Rates for South Zone of PW, P & IWTD SR 2018 Gas or Electric Welder											
	(Sl. No. 41. Page No. I VIII Zana 11.	1	0.12	466.2	EE (
	(Sl. No. 41, Page No. LVIII, Zone - 1 Labour Rates fo Circle)	IWTD SR 20	18 - 19. Bengalus									
			-o, Dongaru									
				Total (B)	111.8							
	Total Cost to	wanda Mat										
	Total Cost to	149.1										
				actor's Profit	14.9							
		d 10% Overh	ead Charges	14.9								
	Total for 1kg of Structural Steel											
C	Ongidon 22 4V - CG			20001	179.0							
	Consider 22.4Kg of Structural Steel per Bollard	Kg	22.4		. 1000.01							
			-2.1	Total	4009.90							
				Total	4009.90							
-				Say	4000.0							



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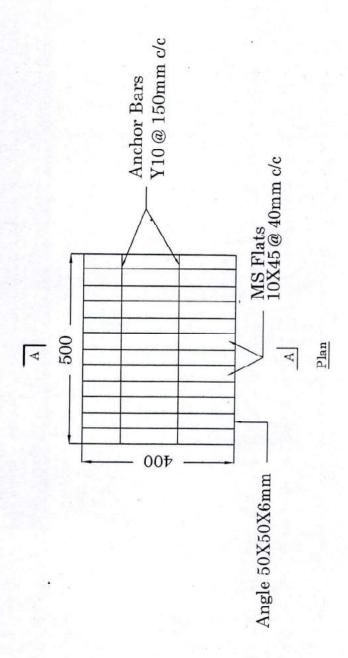
Data Rate for MS Grating over Catch
Drain

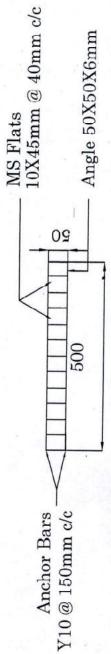
Data Rate for MS Grating over Catch Drain

Providing, supplying and fixing MS Surface Grating of Size 500mm X 400mm at gully trap along the Road Surface as per Approve Drawing including Transportation to Site, Labour Charges, Loading and Unloading, etc., complete for Fixing as indicated in the Drawin with all Lead and Lift as per the Detailed Tender Specifications and as directed by the Engineer - in - Charge.

SI.	der Catch Drain of Size 0.50m X 0.40 Description	Unit	No.	Length	Breadth	in	Donth	0	D	
Vo.				in m	m		in m	Quantity	Rate in Rs.	
	Materials:									Rs.
12	Supplying, Fabricating, Erecting, an	d	-					1		-
r	ixing in Position, inserts an	d	1							
T	mbedments, Truss, Clamps, Bracket	s,								
1,	nsert Plates and all miscellaneous Ste	el	1		1	- 1		1	T .	F 20
V	Works as shown in the Drawing and	is			1			1		
a	irected by the Engineer - in - Charge	at				- 1				
a	ll depths, using MS Angles, Channel	s,			1	- 1				
S	teel Beams, Rails, Tees, Plates, Flat	s,				- 1				
R	ounds, Squares, etc. of various Sizes an	d			99.9					
0	ther Structural Section conforming to IS	S:								
2	062 Grade A, Medium Class GI Pipes, etc	e.		3.		- 1				
	cluding Straightening, Cutting	3,			1				1	
F	abricating, Welding, Bending to Slope	9,				- 1	1			
F	ixing to Position, Welding to insert Plat	e					- 1			
e	mbedded in Concrete and inclusive of	2					- 1			
CC	ats of Enamel Paint over one coat of	f								
IV.	etal Primer. The Rate is to include the	9							1	
100	ost of all Materials, Labour, Tools	,								
17	ackles, Cranes, Devices and Plants	,								
I W	astage, etc. as per the Specifications and	1	- 1							
D	rawings complete including Cost of Bolts						- 1		1	
	uts, Washers, Clamps, Welding	.								
E	ectrodes and Connections required for			- 1						
th	e Work. Rate to include Shims and									
Pa	cking Pieces, etc., complete with all									
Le	ad and Lift as directed by the Engineer .		- 1						-	
in	- Charge.					-	- 1			
	gle 50 X 50 X 6	Kg	2	1.64	-			3.28		
4.0	Kg/m		_					14.76		
MS	5 Flats 10 X 45 @ 40mm c/c	Va		0.40						
	01 X 7850 kg / cum	Kg	8	0.40		 (0.0005	0.001		
						+		11.68		
An	chor Bar 10mm dia @ 150mm c/c on		8	0.50		+		3.67		
bot	h sides - Top and Bottom			0.00				3.67		
10r	nm dia = 3.67m X 0.625kg/m = 2.29	Kg						2.29		
			-			Tota	d Qty.	28.73	-	
							-	0.0287	Power	
Str	uctural Steel in Plates, Angles,	Tonne								
	vanised Structural Steel Plate, etc.	Lonne						0.0287	37288.14	1071
incl	uding 5% Wastage								1	
	No. 251, Code No. 0963, Page No. X of P	W. P & II	WTDS	R 2018 - 10	Rengalis	n C	role			
	1	, , , , , ,	., 100	2010 - 1	, bengalur	u Cl	reie	•	Total (A)	1077
Lak	oour					T			Total (A)	1071.
Lab	our Charges for Fabrication, Cutting	Kg				+-		28.73	20.00	F.07
and	Welding; and Electricity Charges							40.15	20.00	575.
									3	
	many file and the second	7.			dent f			J	Total (B)	575.
				Tot	al Cost to	ware	ds Mate	rials and L	abour (C)	1646.
									actor's Profit	107.
							Add	10% Overh	ead Charges	107.
	- 1 / 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			T	otal for 0.2	20 S	qm of M	ild Steel fo	or Grating	1860.2
Hen	ce for 1 Som of Gracing over Catch I	Orain				Γ				9301.0
	12								Sax	9300.0
								ಅಡಿಯಲ್ಲಿ ವಿತ		

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Approved Rate of Green Pigmented
Asphalt

+ + + + + + + + + + + + + + + + + + +	ոոຣວջաեጋ դ	iw bən	Scan			ಸುಲ್ಲಿ ವಿಶಂಸಲಾಗಿದೆ" (೧೬೬೩)
1745.00	320.76	68.04	3.24	1500 00		
20.	23.76	5.04	0.24			
1745.00	297.00	63.00	3.00	1500.00	1500,00	
Sqm	Nos	Sqm	Sqm	, who is a second	E A	
	5.3	24.7	21.2			18.5%
	25	180	160			179
at size with etget, they may graded grante je''. 201 and a considered of the size of the size of the size of the size of the complete size of the size of the complete size and fixing and the directions of Engineer in-charge.	772.21 C.C. 1.2.4 with top and bottom width 114 and 165 mm etrig and finishing cutting, including formwork, curing including formwork, curing including defined and finishing cutting, including formwork, curing including defined. Babour, hire charges of machinery, loading defined and directions of the engineer in charge.	Specifications and directions of the engineer in charge.	Cave bituminous treatment including cost of all materials, labour, engineer in charge.	fromfum (III) oxide (cr 203) laying over the synthetic binder with multision liquids Sprayed on prepared black topped surfaces heating fruitsion in boiler fitted with spray set mixing at full scale Plants. Pigmented Asphall by hand pacement levelling compacting with rollers, transporting the mixed abour HOM of machinenes compete as per specifications and rections of the engineer in charge.	Red Pigmented Asphall Providing and laying red pigment with comprises of a specially formulated binder system with comprises of a specially formulated binder system with a colour coded glass aggregate manufactured using a proprietary adding, consistent colour suface, environment friendly, sub angular adding, consistent colour suface, environment friendly, sub angular adding, consistent colour suface, environment friendly, sub angular with 5-8 hours resulting in minimal traffic disruption. The finished unacce to be level; uniform and free from streaks and holes that an adding with all lead 8. Lift, including cost of all materials, labour. HOM of machineries compete as per specifications.	Planding and fluing of retro-reflectorised docm Circular - Type IV mandolor sign as per revised RC 67-2012 made of high intensity page 25 mill filed cause 800, 113 filed over aluminium sheeting filed and filed filed for post 25mm x 15mm filed filed means of property designed

Approved Rate for Tree Transplantation

Phone: 09972522240 Mobile: 08217691902.

T.M.R.H. PLANTATIONS

45, Srecrama Mandira Road, Basvanagudi, Bangalore - 560 004

QUOTATION.

Date:-12/11/19 place:-Bengaluru.

70 Executive Engineer,
Road Widening Division,
BBMP, Bengalueu

Sus: - Quetation for Transplantation of trees on Jaya Mahal mond and Bellay mond.

Ref. Enquiry oregarding transplantation of tonees.

TRANS PLANGTHE MARKED TREES TO THE PLACE SHOWN BY THE High way Authorities, with ALL KEAD AND HET TOOKS PLANTS TECHNICAL. MEN MACHINARIES, AND NECESSARY PREPERATION:i) preparation of Earth ball of thee, hoot stock, on technical basis of desired depth and Drameter, by machinery and manual labour (machina ries involves J.C.B. and Other required tools, power saws the exposed roots, So as to Prepare the ball of Earth with conform size e girta). 11) Excavation of pits of adequate Size, propositionate to the size of prepared ball of Earth, at the exact relocation point by J.C.B. Other implements and technical

"ಮಾಹಿತಿ ಹೆಕ್ಕು ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿತರಸವಾಗಿಗೆ"

Outh

Phone: Mobile:

T.M.R.H. PLANTATIONS

45, Sreerama Mandira Road, Basvanagudi, Bangalore - 560 004

III) Trimming the branches to.

tacilitate the lifting the tree.

transportation and to keep.

the gravitational torce of

the total mass of the Tree

in tact.

IV) Dislodging, lifting, with the help of required capacity
Cranes (one or two) as the Cranes (one or two) as the Case may be, transportation by crane only, if the distance is bear able; or Transportation the treated tree to a distance. By truck (if the distance is more than the bearable trange) as the case may be; and. Planting the tree, at the location point; with proper Anchoring & balong with the help of cranes & technically found.

4

D'Amanging loose Soil, Consolida tion while filling the planted pit. Ramming for tightening the base portion of the tree. I other related technical works.

Wi) Water ing, Bfficontin of works and adde stored in water & application on Cut copying Cod

Phone: Mobile:

T.M.R.H. PLANTATIONS

45, Sreerama Mandira Road, Basvanagudi, Bangalore - 560 004

VII) MAINTENCE after the
Transplantation process,
has to be borne by the
Customer himself as per
the maintenence chart.
given by the Exelution
agency meninty watering
over a period of 8 (Eight
months).

Hupees mineteen thousand mine hundred only - Fee tree including all oberations.

for T. M.R. H Plantation

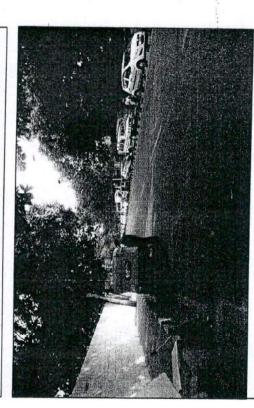
Porc

ತಮಾಹಿತಿ ಹೆಮ್ಮೆ ಕಾಯ್ದೆ ಅಡಿಯಲ್ಲಿ ವಿಸಗಿಸಂಗಾಗೆ"

Chapter 7
Photographs

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

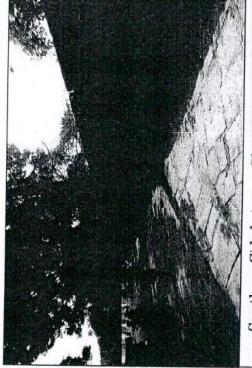




Northern Side between Ch: 200m and 225m

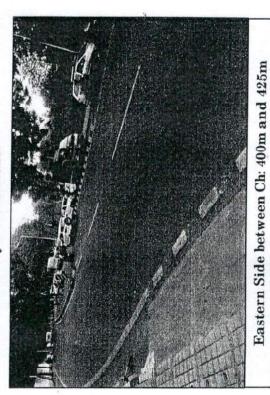


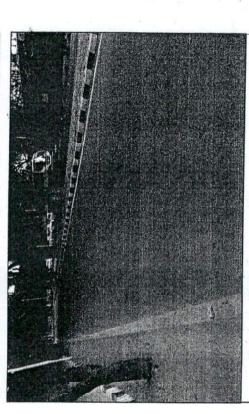
Southern Side between Ch: 0m and 25m



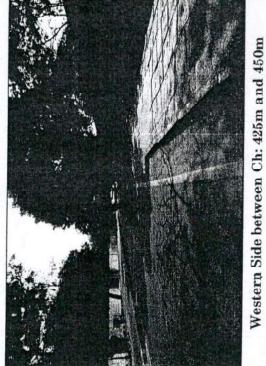
Southern Side between Ch: 175m and 200m "ಮಾಹಿತೆ ಹಕ್ಕು ಕಾರ್ಯ್ದೆ ಆಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

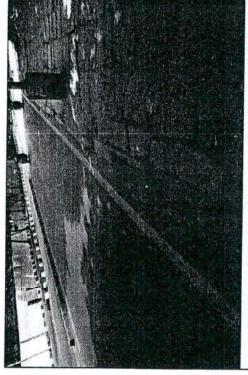
Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:





Eastern Side between Ch: 500m and 525m

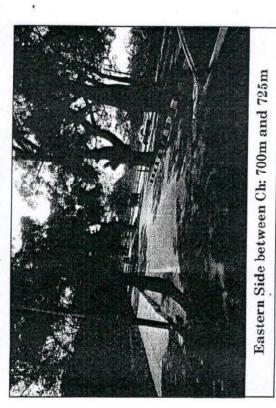


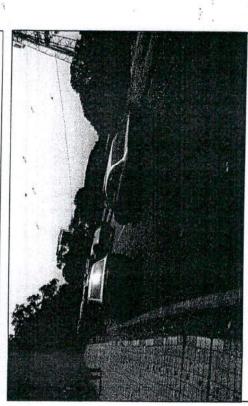


Western Side between Ch: 450m and 475m

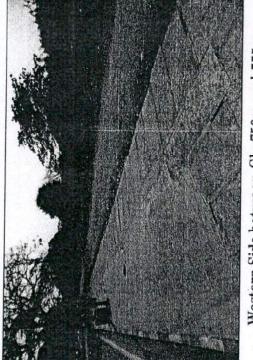
Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

Name of Road: Jayamahal Road

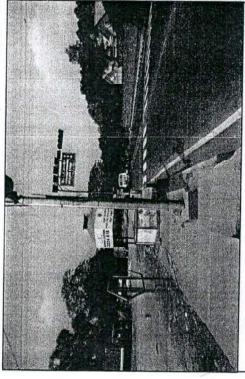




Eastern Side between Ch. 800m and 825m



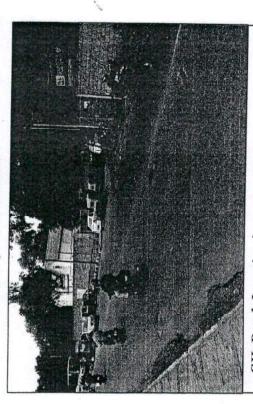
Western Side between Ch: 750m and 775m



"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದ ಆಡಿಯಲ್ಲಿ ವಿತರಸಲಾಗಿದೆ".

STAN DO

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:



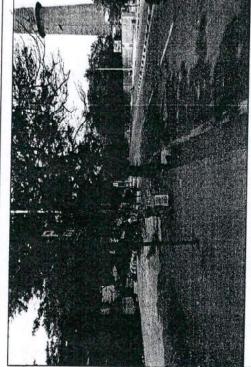
CIL Road Junction between Ch: 900m and 950m



Eastern Side between Ch: 1000m and 1025m

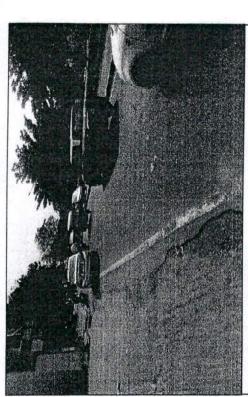


Western Side between Ch: 950m and 975m

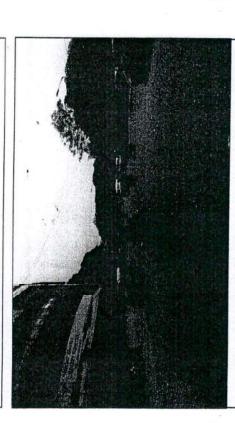


Western Side between Ch: 1025m and 1050m ಹೆಕ್ಕು ಕಾಯ್ದೆ ಆಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

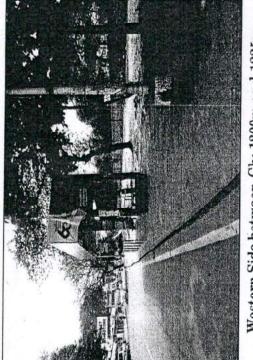
Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:



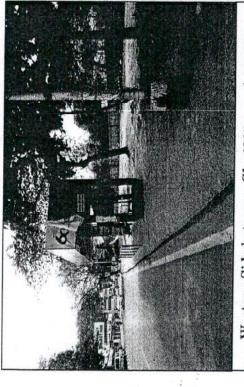
Eastern Side between Ch: 1250m and 1275m



Munireddy Palya Road Junction between Ch: 1400m and 1450m



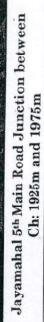
Western Side between Ch: 1200m and 1225m

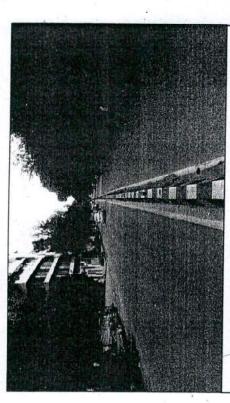


Western Side between Ch: 1325m and 1350m "ಮಾಹಿತಿ ಹತ್ತು ಕಾಯ್ದೆ ಆಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

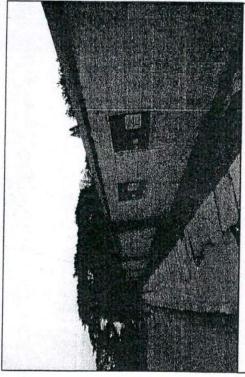
Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:



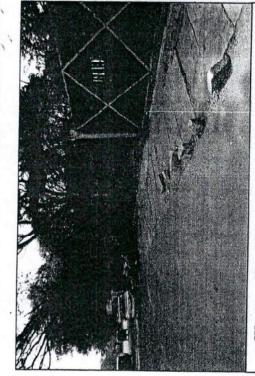




Jayamahal 1st Main Road Junction between Ch: 2125m and 2175m



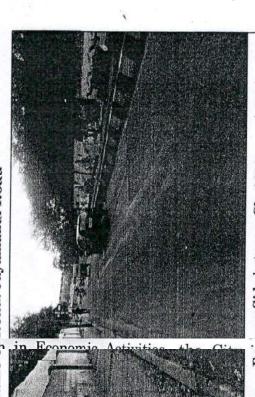
Western Side between Ch: 1500m and 1525m



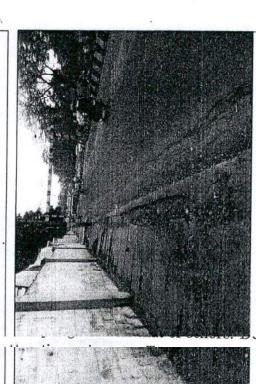
Western Side between Ch: 1600m and 1625m

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Projec

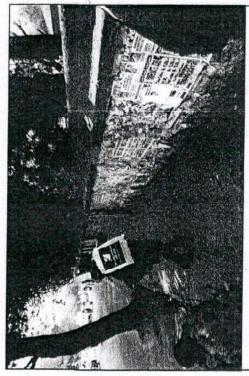
Name of Road: Jayamahal Road



a ern Side between Ch: 2300m and 2325m



Ea cern Side between Ch: 2450m and 2475m



Western Side between Ch: 1750 and 1775m



Western Side between Ch: 2050m and 2075m

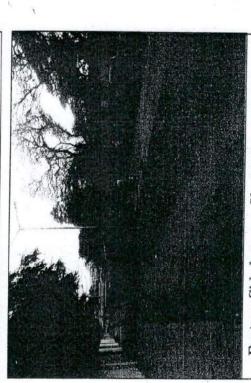
ಹೆಸ್ಕು ಕಾಯ್ದೆ ಆಡಿಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. · Junction to Mehkri Circle) in Bengaluru City Project:

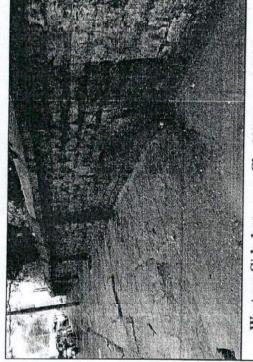
Name of Road: Jayamahal Road



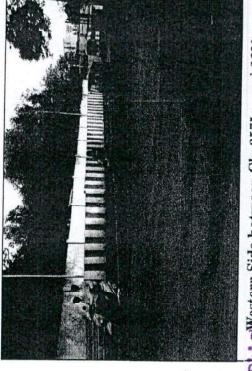
Eastern Side between Ch: 2525m and 2550m



Eastern Side between Ch: 2600m and 2625m



Western Side between Ch: 2350m and 2375m

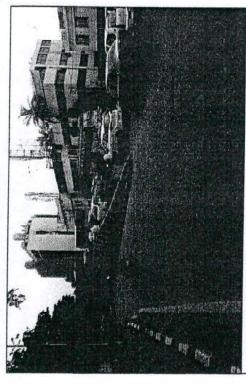


"குக்கு குழுத்தது. Side between Ch: 2575m and 2600m

ಂದಯಲ್ಲಿ ವಿತರಸಲಾಗಿದೆ" (0.2%

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

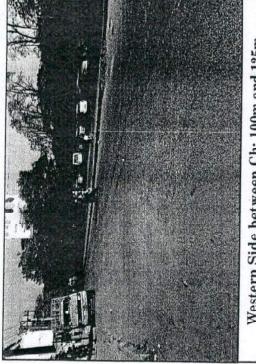
Name of Road: Bellary Road



B. D. A. Junction between Ch: 0m and 100m



Eastern Side between Ch: 150m and 175m



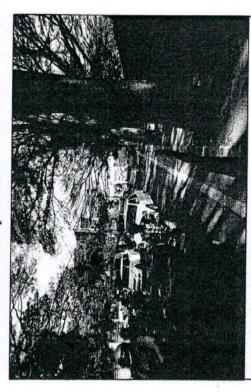
Western Side between Ch: 100m and 125m



"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ನೆV**ಅತುಪರಿ Side**ಸಚಾಗಿಸಲಿಂದ Ch: 200m and 225m

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

Name of Road: Bellary Road



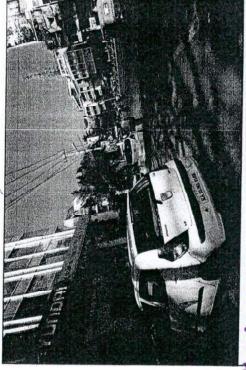
Eastern Side between Ch: 275m and 300m



Eastern Side between Ch: 450m and 475m



Western Side between Ch: 300m and 325m



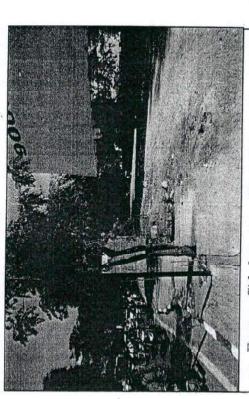
"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ಗೆ ಅತುಣಿಗೆದ್ದಿ Sidesbet Meen Ch: 450m and 475m

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Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

Name of Road: Bellary Road





Eastern Side between Ch: 800m and 825m



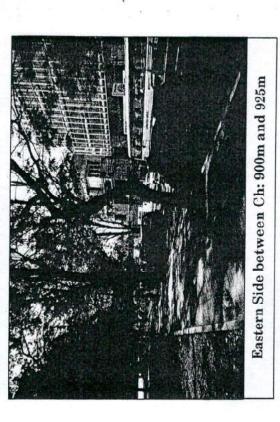
Western Side between Ch: 625m and 650m

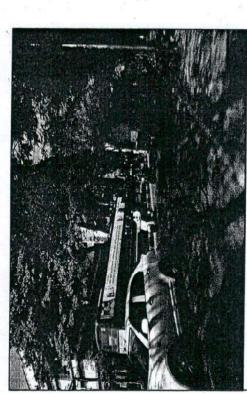


"ಮಾಹಿತಿ ಹಕ್ಕು ಕಾಯ್ದ ಅಡೆಯಲ್ಲಿ ವಿತರಿಸಲಾಗಿದೆ"

Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

Name of Road: Bellary Road





Eastern Side between Ch: 1000m and 1025m



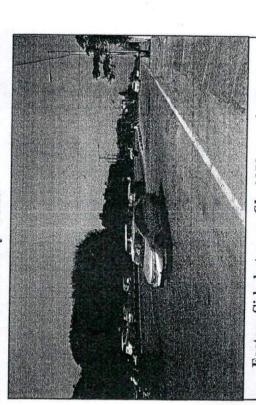
Western Side between Ch: 1150m and 1175m



Western Side between Ch: 1250m and 1275m ਅਤਿਹਾਨ ੂੰ ਹਵਰਸ਼ਵਾਜ਼ਿਟੰਂ

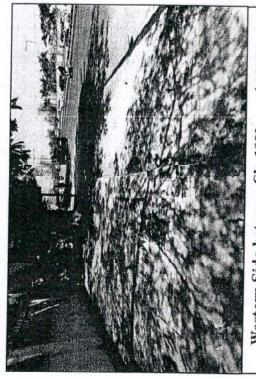
Widening of Jayamahal Road (from Mehkri Circle to Jayamahal Palace Hotel) and Bellary Road (from B. D. A. Junction to Mehkri Circle) in Bengaluru City Project:

Name of Road: Bellary Road









Western Side between Ch: 1300m and 1325m



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May demand