北京市交通行业养护工程补充定额 JLZJ-Y-CL（B）-001-2018

**2018年北京市城市道路养护工程补充定额**

|  |
| --- |
| 2018-10-12发布 2018-11-01实施 |

北京市道路工程造价定额管理站

总 说 明

**一、本定额适用于城市道路大中修工程，费用计取执行2012年《北京市建设工程计价依据——预算定额》及配套文件，采用《北京工程造价信息》（除税版）单价。**

**二、本定额是根据夜间施工的条件下，结合本市施工企业技术装备状况、现阶段施工工艺水平、合理的劳动组织和工期安排等编制的，除另有规定外，不得因上述因素的差异对定额子目进行调整或换算。**

**三、定额消耗量确定及其内容**

**（一）本定额人工消耗量以综合工日计取，综合考虑了大修养护工程的施工地点分散，现场作业场地狭窄，受行车、行人干扰、常规既有的及已完工程成品保护费、夜间施工增加费、二次搬运费、机械进出场费、工程定位复测、测量放线等因素的影响，包括基本用工、辅助用工、超运距用、人工幅度差。**

**（二）材料**

**1、材料单价为增值税税前价格。**

**2、本定额材料消耗量按现行材料标准的合格料和标准规格料计算，包括主要材料、辅助材料、周转使用材料、零星材料，相应的损耗、周转使用的材料按使用次数、折旧年限摊销等。**

**3、本定额中其他材料费是指零星材料费，定额中包含施工所需水、电费用。**

**4、本定额消耗量中不包括需要特殊保护防护的既有和成品工程保护费。**

**5、原材料、成品、半成品的定额含量包括场内运输及操作损耗，编制预算时，不得另行增加。**

**（三）机械**

**1、本定额中的机械按常用机械、合理机械配备和施工企业的机械化装备程度,并结合工程实际综合确定，机械台班中包括柴油、汽油等动力费用。**

**2、本定额机械台班消耗数量按行业标准组织施工配备，综合考虑了大修养护工程的施工地点分散，现场作业场地狭窄，受行车、行人干扰、模板脚手架支架等随时拆搭、常规的既有及已完工程常规成品保护费、夜间施工增加费、雨季施工、二次搬运费、机械进出场费、行车干扰费用、工程定位复测、现场测量放线等因素的影响。**

**3、本定额中其他机具费包括小型机械使用费、生产工具使用费、机械费及仪器仪表使用费。**

**四、人工、材料、机械单价**

**（一）、人工**

**本定额人工费单价包括计时计件工资、奖金、津贴补贴、加班加点工费、特殊情况下支付的工资。**

**（二）、材料**

**本定额材料费单价采用市场价格（除税价），包括材料原价、采购保管费、运杂费、（场外）运输损耗等。**

**（三）、机械**

**机械台班单价以市场价为主，并参考2012年《北京市建设工程机械台班费用定额》、2007年《公路工程机械台班费用定额》编制，按照《全国统一机械台班费用计算规则》计算，动力燃料单价采用市场价格（燃油及材料价格采用除税价）。**

**五、本定额中凡注明“xx以内”或“xx以下”者均包括xx本身在内，而注明“xx以外”或“xx以上”者均不包括xx本身。**

**六、幅度差参考道路工程管理部门规定。（内容包括：试验段、检查验收、工地转移、搬运、收尾、不同工程差异、非招标形式委托的项目等）。**

**七、本定额不含渣土消纳费，如发生按实际计算，且只计取税金。**

**八、本定额按8小时工作班计算，定额消耗量考虑了由驻地至施工现场的时间。**

目 录

[第一章 城市道路大修补充定额 1](#_Toc525834391)

[1-1 混凝土裂缝处理-表面封闭裂缝（利用叉车或升降车做脚手架） 2](#_Toc525834392)

[1-4 混凝土裂缝处理—自动低压渗注法（平地或脚手架上施工） 6](#_Toc525834393)

[1-5 装饰层结构内混凝土裂缝处理—表面封闭裂缝（平地或脚手架上施工） 6](#_Toc525834394)

[1-6 装饰层结构内混凝土裂缝处理-自动低压渗注法（平地或脚手架上施工） 7](#_Toc525834395)

[1-7 挂贴钢板灌注粘钢胶 9](#_Toc525834396)

[1-8 封边留孔 11](#_Toc525834397)

[1-9 手持式高压水力破除设备破除混凝土 12](#_Toc525834398)

[1-10 机器人型高压水力破除设备破除混凝土 13](#_Toc525834399)

[1-11 高压水力破除设备破除混凝土 14](#_Toc525834400)

[1-12 防撞墩挂网锚喷高强砂浆 15](#_Toc525834401)

[1-13机械拆除混凝土路缘石 16](#_Toc525834402)

[1-14 1km旧路混凝土缘石装运 17](#_Toc525834403)

[第二章 阻车桩定额 18](#_Toc525834404)

[2-1 石球阻车桩养护 19](#_Toc525834405)

[2-2 阻车桩养护（除石球阻车桩外） 20](#_Toc525834406)

[2-3 阻车桩年度经费定额 21](#_Toc525834407)

## 第一章 城市道路大修补充定额

**章说明**

**一、定额项目**

**本章包括混凝土裂缝处理、挂贴钢板灌注粘钢胶、封边留孔、高压水力破除设备破除混凝土、防撞墩挂网锚喷高强砂浆、机械拆除混凝土路缘石等14个项目。**

**二、定额使用说明**

**1、除挂贴钢板灌注粘钢胶、封边留孔适用于白天施工外，其他项目均适用于夜间施工。**

**2、本定额不含专项交通导改费用和专项施工安全措施费用，但包含现场锥桶、反光服装等零星材料费用。**

**3、1-11（高压水力破除设备破除混凝土）编制施工图预算和设计概算宜适用；1-9（手持式高压水力破除设备破除混凝土）和1-10（机器人型高压水力破除设备破除混凝土）针对当前具体情况编制（类似企业定额），适用于具体专项施工结算。**

## 1-1 混凝土裂缝处理-表面封闭裂缝（利用叉车或升降车做脚手架）

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **工作内容：** 1）人员、材料、施工机具运至现场；2）人员机具设备就位、现场防护及照明等准备工作；3）现场施工作业：包括查缝及划线标识，混凝土裂缝打磨及清理，涂刷快干封缝胶；4）清理现场，现场无存贮场地的物资设备装车；5）人员、材料、施工机具撤离现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 自动低压渗注法 | |  | 基 价 | | 元 | 00401 |  | 13331 | | 其 中 | 人工费 | 元 | 00101 |  | 2142.08 | | 材料费 | 元 | 00202 |  | 961.4 | | 机械费 | 元 | 00303 |  | 10227.36 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 22.1977 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 23.46 | | 3 | 其他材料费 | 元 | 00200 | 1 | 23.00 | | 4 | 机 械 | 15KW以内柴油发电机组 | 台班 | 26020 | 230.85 | 7.74 | | 5 | 3kw以内混凝土打磨机 | 台班 | 28006 | 10.75 | 11.9221 | | 6 | 提升质量3t以内内燃叉车 | 台班 | 1547 | 312.81 | 19.2753 | | 7 | 2t载货汽车 | 台班 | 24030 | 322.14 | 1.548 | | 8 | 4t载货汽车 | 台班 | 24035 | 440.51 | 1.548 | | 9 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 15.9055 | | 10 | 小型机具使用费 | 元 | 00300 | 1 | 5.96 | | 注：本定额适用于夜间施工且现场不具备搭设脚手架的条件下施工，缝宽≤0.15mm。 | | | | | | | |

1-2 混凝土裂缝处理—自动低压渗注法（利用叉车或升降车做脚手架）

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容： 1）人员、材料、施工机具运至现场；2）人员机具设备就位、现场防护及照明等准备工作；3）现场施工作业：包括查缝及划线标识，混凝土裂缝打磨及清理，涂刷快干封缝胶及粘贴胶嘴；注胶及拆灌浆器；敲掉底座堵头及打磨恢复原状； 4）清理现场，现场无存贮场地的物资设备装车；5）人员、材料、施工机具撤离现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 自动低压渗注法 | |  | 基 价 | | 元 | 00401 |  | 27654 | | 其 中 | 人工费 | 元 | 00101 |  | 3745.65 | | 材料费 | 元 | 00202 |  | 8003.6 | | 机械费 | 元 | 00303 |  | 15905.04 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 38.815 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 23.46 | | 3 | 灌缝胶 | kg | 15631 | 60 | 33.92 | | 4 | 灌胶座 | 个 | 18251 | 10 | 500 | | 5 | 其他材料费 | 元 | 00200 | 1 | 30.00 | | 6 | 机 械 | 15KW以内柴油发电机组 | 台班 | 26020 | 230.85 | 13.2219 | | 7 | 3kw以内混凝土打磨机 | 台班 | 28006 | 10.75 | 15.8985 | | 8 | 提升质量3t以内内燃叉车 | 台班 | 1547 | 312.81 | 30.4098 | | 9 | 2t载货汽车 | 台班 | 24030 | 322.14 | 2.709 | | 10 | 4t载货汽车 | 台班 | 24035 | 440.51 | 2.709 | | 11 | 机  械 | 4m3/min以内吹风机 | 台班 | 22052 | 1 | 6.97 | | 12 | 小型机具使用费 | 元 | 00300 |  | 27654 | | 注：本定额适用于夜间施工且现场不具备搭设脚手架的条件下施工，缝宽＞0.15mm。 | | | | | | | |

1-3 **混凝土裂缝处理—表面封闭裂缝（平地或脚手架上施工）**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）查缝并划线标识；2）打磨并清理裂缝；3）涂刷快干封缝胶；4）清理现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 表面封闭法 | |  | 基 价 | | 元 | 00401 |  | 6220 | | 其 中 | 人工费 | 元 | 00101 |  | 2184.86 | | 材料费 | 元 | 00202 |  | 904.28 | | 机械费 | 元 | 00303 |  | 3130.89 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 22.641 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 22.0320 | | 3 | 其他材料费 | 元 | 00200 | 1 | 23.00 | | 4 | 机 械 | 15KW以内柴油发电机组 | 台班 | 26020 | 230.85 | 9.2352 | | 5 | 3kw以内混凝土打磨机 | 台班 | 28006 | 10.75 | 10.2941 | | 6 | 2t载货汽车 | 台班 | 24030 | 322.14 | 2.2582 | | 7 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 2.2466 | | 8 | 小型机具使用费 | 元 | 00300 | 1 | 5.9600 | |  |  |  |  |  |  | | 注：本定额适用于夜间施工,不含搭设、拆除脚手架的费用，缝宽≤0.15mm。 | | | | | | | |

## 1-4 混凝土裂缝处理—自动低压渗注法（平地或脚手架上施工）

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）查缝并划线标识；2）打磨并清理裂缝； 3）涂刷快干封缝胶及粘贴胶嘴；4）注胶及拆灌浆器；5）敲掉底座堵头及打磨恢复原状；6）清理现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 自动低压渗注法 | |  | 基 价 | | 元 | 00401 |  | 18209 | | 其 中 | 人工费 | 元 | 00401 |  | 4654.2 | | 材料费 | 元 | 00101 |  | 8087.18 | | 机械费 | 元 | 00202 |  | 5467.13 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 48.230 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 22.0320 | | 3 | 灌缝胶 | kg | 15631 | 60 | 34.5984 | | 4 | 灌胶座 | 个 | 18251 | 10 | 510.0000 | | 5 | 其他材料费 | 元 | 00200 | 1 | 30.00 | | 6 | 机 械 | 15KW以内柴油发电机组 | 台班 | 26020 | 230.85 | 16.8608 | | 7 | 3kw以内混凝土打磨机 | 台班 | 28006 | 10.75 | 32.4213 | | 8 | 2t载货汽车 | 台班 | 24030 | 322.14 | 2.9954 | | 9 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 3.6903 | | 10 | 小型机具使用费 | 元 | 00300 | 1 | 6.9700 | | 注：本定额适用于夜间施工,不含搭设、拆除脚手架的费用，缝宽＞0.15mm。 | | | | | | |  1-5 装饰层结构内混凝土裂缝处理—表面封闭裂缝（平地或脚手架上施工）  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 工作内容：1）查缝并划线标识；2）打磨并清理裂缝；3）涂刷快干封缝胶；4）清理现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 表面封闭法 | |  | 基 价 | | 元 | 00401 |  | 1967 | | 其 中 | 人工费 | 元 | 00101 |  | 893.59 | | 材料费 | 元 | 00202 |  | 881.2 | | 机械费 | 元 | 00401 |  | 191.94 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 9.260 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 21.83 | | 3 | 其他材料费 | 元 | 00200 | 1 | 8.00 | | 4 | 机 械 | 2.2KW洗车机 | 台班 | 28023 | 17.79 | 1.6866 | | 5 | 角向磨光机 | 台班 | 28010 | 4.91 | 3.8914 | | 6 | 220v配电箱 | 台班 | 16240 | 10.74 | 2.4113 | | 7 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 0.1925 | | 8 | 2t载货汽车 | 元 | 24030 | 322.14 | 0.3126 | | 9 | 小型机具使用费 | 元 | 00300 | 1 | 2.96 | | 注：本定额适用于封闭裂缝处理后后挂贴面砖情况，缝宽≤0.15mm。 | | | | | | | |  1-6 装饰层结构内混凝土裂缝处理-自动低压渗注法（平地或脚手架上施工）  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 工作内容：1）查缝并划线标识；2）打磨并清理裂缝； 3）涂刷快干封缝胶及粘贴胶嘴；4）注胶及拆灌浆器；5）敲掉底座堵头及打磨恢复原状；6）清理现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 混凝土裂缝处理 | | --- | --- | --- | --- | --- | --- | --- | | 自动低压渗注法 | |  | 基 价 | | 元 | 00401 |  | 10044 | | 其 中 | 人工费 | 元 | 00401 |  | 1819.41 | | 材料费 | 元 | 00101 |  | 8012.8 | | 机械费 | 元 | 00202 |  | 211.4 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 18.854 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 23.4600 | | 3 | 灌缝胶 | kg | 15631 | 60 | 32.6400 | | 4 | 灌胶座 | 个 | 18251 | 10 | 510.0000 | | 5 | 其他材料费 | 元 | 00200 | 30.00 | 30 | | 6 | 机 械 | 2.2KW洗车机 | 台班 | 28023 | 17.79 | 1.9759 | | 7 | 角向磨光机 | 台班 | 28010 | 4.91 | 4.1615 | | 8 | 220v配电箱 | 台班 | 16240 | 10.74 | 2.5649 | | 9 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 0.1925 | | 10 | 2t载货汽车 | 台班 | 24030 | 322.14 | 0.3126 | | 11 | 小型机具使用费 | 元 | 00300 | 1 | 14.0000 | | 注：本定额适用于封闭裂缝处理后后挂贴面砖情况，缝宽＞0.15mm。 | | | | | | | | |

## 1-7 挂贴钢板灌注粘钢胶

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）吊装钢板、打磨、打孔；2）临时固定；3）拆临时锚栓及安装固定锚栓；4）灌胶；5）清理现场。  单位：m2   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 挂贴钢板灌注 | 挂贴钢板灌注 | | --- | --- | --- | --- | --- | --- | --- | --- | | 厚度8mm | 每增减1mm 1mm | |  | 基 价 | | 元 | 00401 |  | 2183.44 | 153.40 | | 其 中 | 人工费 | 元 | 00401 |  | 910 | 79.62 | | | 材料费 | 元 | 00101 |  | 812.12 | 56.45 | | | 机械费 | 元 | 00202 |  | 463.32 | 64.18 | | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 9.43 | 0.8251 | | | 2 | 材 料 | 灌钢胶 | kg | 150632 | 60 | 5.1 | 0 | | | 3 | 钢板（含切割打孔加工费） | t | 14111 | 5466 | 0.0644 | 0.0081 | | | 4 | 锚栓（M12） | 套 | 14740 | 7 | 13.26 | 0 | | | 5 | 酚醛防锈漆 | kg | 15370 | 23 | 0.306 | 0 | | | 6 | 丙酮 | kg | 15830 | 12 | 0.204 | 0 | | | 7 | 其他材料费 | 元 | 00200 | 1 | 49.8 | 12.45 | | | 8 | 机 械 | 3kw以内手持电动冲击钻 | 台班 | 28071 | 23.12 | 0.2088 |  | | | 9 | 4m3/min以内吹风机 | 台班 | 22052 | 68.93 | 0.2712 |  | | | 10 | 3kw以内混凝土打磨机 | 台班 | 28006 | 10.75 | 0.6714 |  | | | 11 | 2t载货汽车 | 台班 | 24030 | 322.14 | 0.4808 |  | | | 12 | 3m3/min以内电动空气压缩机 | 台班 | 26090 | 257.89 | 0.3691 |  | | | 13 | 15KW以内柴油发电机组 | 台班 | 26020 | 230.85 | 0.3226 |  | | | 14 | 32kV.A以内交流电弧焊机 | 台班 | 27011 | 176.49 | 0.2195 |  | | | 16 | 小型机具使用费 | 元 | 00300 | 1 | 69.3 | 17.325 | | |  |  |  |  |  |  |  | | |

注：1、本定额适用于在平地直接施工或采用脚手架作为施工措施的工程；2、适用于各种桥梁的外部加固工程；3、包含各种方式的钢板切割与打眼工作的费用，使用定额时不得增加.4、本定额施工场地不受限制，适用于白天施工，5、脚手架措施费单独计算。

## 1-8 封边留孔

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）涂抹快干封缝胶及保留孔隙；2）清理现场。  单位：10m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 挂贴钢板 | | --- | --- | --- | --- | --- | --- | --- | | 封边留孔 | |  | 基 价 | | 元 | 00401 |  | 261 | | 其 中 | 人工费 | 元 | 00101 |  | 40.24 | | 材料费 | 元 | 00202 |  | 214.8 | | 机械费 | 元 | 00401 |  | 6 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 0.417 | | 2 | 材 料 | 封缝胶 | kg | 15641 | 40 | 2.7200 | | 3 | 注胶嘴/出胶孔 | 个 | 15632 | 10 | 10.2000 | | 4 | 其他材料费 | 元 | 00200 | 1 | 4.0000 | | 5 | 机 械 | 小型机具使用费 | 元 | 00300 | 1 | 6.0000 | | 6 |  |  |  |  |  | | 7 |  |  |  |  |  | | 8 |  |  |  |  |  | | 9 |  |  |  |  |  | | 10 |  |  |  |  |  | | 注：本定额为粘钢后的封边留孔，与挂贴钢板配套使用(不分钢板厚度) | | | | | | | |

## 1-9 手持式高压水力破除设备破除混凝土

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：现场准备、组装连接水力破除装置、水力破除、清理现场、人员材料机械设备装车运回。  单位：m2   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 手持式破除 | 手持式破除 | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 厚度2cm | 每增0.5cm | | |  | 基 价 | | 元 | 00401 |  | 113.96 | 19.85 | | | 其 中 | 人工费 | 元 | 00401 |  | 12.93 | 2.26 | | 材料费 | 元 | 00101 |  | 1.26 | 0.23 | | 机械费 | 元 | 00202 |  | 99.77 | 17.46 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 0.134 | 0.0235 | | **2** | 材料 | 水 | m3 | 19060 | 8.56 | 0.0308 | 0.0054 | | 3 | 其他材料费 | 元 | 00200 | 1 | 1.0000 | 0.1750 | | 4 | 机 械 | 手持式水力破除装置（德国falch福狮base jet125,包括高压泵站，喷射架，喷射架电源，高压水管，高压喷头） | 台班 | 28041 | 2385.25 | 0.0211 | 0.0037 | | 5 | 5t载货汽车 | 台班 | 24040 | 514.24 | 0.0132 | 0.0023 | | 6 | 洒水车，容量8000L | 台班 | 24080 | 723.68 | 0.0162 | 0.0028 | | 7 | 环保静音发电机组150KW | 台班 | 26061 | 1611.03 | 0.0155 | 0.0027 | | 8 | 小型机具使用费 | 元 | 00300 | 8.56 | 5.9600 | 1.043 | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |

注：不含渣土消纳费用。

## 1-10 机器人型高压水力破除设备破除混凝土

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：现场准备、组装连接水力破除装置、水力破除、清理现场、人员材料机械设备装车运回。  单位：m2   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 机器人破除 | 机器人破除 | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 厚度2cm | 每增0.5cm | | |  | 基 价 | | 元 | 00401 |  | 39.01 | 11.66 | | | 其 中 | 人工费 | 元 | 00401 |  | 1.06 | 0.32 | | 材料费 | 元 | 00101 |  | 1.22 | 0.37 | | 机械费 | 元 | 00202 |  | 36.73 | 10.97 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 0.0110 | 0.0033 | | **2** | 材料 | 水 | m3 | 19060 | 8.56 | 0.0254 | 0.0076 | | 3 | 其他材料费 | 元 | 00200 | 1 | 1.0000 | 0.3000 | | 4 | 机 械 | 机器人型水力破除设备 | 台班 | 28042 | 7307.01 | 0.0040 | 0.0012 | | 5 | 5t载货汽车 | 台班 | 24040 | 514.24 | 0.0025 | 0.0007 | | 6 | 洒水车，容量8000L | 台班 | 24080 | 723.68 | 0.0031 | 0.0009 | | 7 | 小型机具使用费 | 元 | 00300 | 1 | 3.9733 | 1.192 | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |

注：不含渣土消纳费用。

## 1-11 高压水力破除设备破除混凝土

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：现场准备、组装连接水力破除装置、水力破除、清理现场、人员材料机械设备装车运回。  单位：m2   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 水力破除砼 | 水力破除砼 | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 厚度2cm | 每增0.5cm | | |  | 基 价 | | 元 | 00401 |  | 61.48 | 13.84 | | | 其 中 | 人工费 | 元 | 00401 |  | 4.62 | 0.90 | | 材料费 | 元 | 00101 |  | 1.23 | 0.32 | | 机械费 | 元 | 00202 |  | 55.63 | 12.62 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 0.0479 | 0.0093 | | **2** | 材料 | 水 | m3 | 19060 | 8.56 | 0.027 | 0.0069 | | 3 | 其他材料费 | 元 | 00200 | 1 | 1 | 0.2625 | | 4 | 机 械 | 机器人型水力破除（瑞士康健特ROBOT557包括高压泵站，喷射架，喷射架电源，高压水管，高压喷头，不需要电源） | 台班 | 28042 | 7307.01 | 0.0028 | 0.0008 | | 5 | 手持式水力破除装置（德国falch福狮base jet125,包括高压泵站，喷射架，喷射架电源，高压水管，高压喷头） | 台班 | 28041 | 2385.25 | 0.0063 | 0.0011 | | 6 | 5t载货汽车 | 台班 | 24040 | 514.24 | 0.0057 | 0.0012 | | 7 | 洒水车，容量8000L | 台班 | 24080 | 723.68 | 0.007 | 0.0015 | | 8 | 环保静音发电机组150KW | 台班 | 26061 | 1611.03 | 0.0047 | 0.0008 | | 9 | 小型机具使用费 | 元 | 00300 | 8.56 | 4.5693 | 1.1473 | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |

注：适用于机器人和手持式混合使用、或不能确定使用哪种设备的情况；不含渣土消纳费用。

## 1-12 防撞墩挂网锚喷高强砂浆

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）安装钢丝绳网片；2）喷洒界面剂；3）现场拌和高强砂浆；4）喷射高强砂浆；5）抹压高强砂浆；6）赶光及修饰；7）养生  单位：m2   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 防撞墩挂网锚喷高强砂浆 | 防撞墩挂网锚喷高强砂浆 | | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2.5cm | 每±0.5cm | | |  | 基 价 | | 元 | 00401 |  | 278.80 | 41.31 | | | 其 中 | 人工费 | 元 | 00401 |  | 97.75 | 13.68 | | 材料费 | 元 | 00101 |  | 126.56 | 20.00 | | 机械费 | 元 | 00202 |  | 54.49 | 7.63 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 1.013 | 0.1418 | | 2 | 材料 | 界面剂 | kg | 14190 | 19 | 1.1440 | 0.0000 | | 3 | 钢丝绳网片 | kg | 11240 | 10 | 1.6100 | 0.0060 | | 4 | 高强砂浆 | m3 | 15740 | 2524 | 0.0300 | 0.1602 | | 5 | 其他材料费 | 元 | 00200 | 1 | 13.0000 | 1.8200 | | 6 | 机 械 | 环保静音发电机组50KW | 台班 | 26041 | 689.48 | 0.0155 | 0.0022 | | 7 | 混凝土喷射机4-6m3/h | 台班 | 23040 | 280.06 | 0.0248 | 0.0035 | | 8 | 8t载货汽车 | 台班 | 24043 | 548.42 | 0.0116 | 0.0016 | | 9 | 5t载货汽车 | 台班 | 24040 | 514.23 | 0.0107 | 0.0015 | | 10 | 洒水车（容量8000L） | 台班 | 24080 | 723.68 | 0.0085 | 0.0012 | | 11 | 灰浆搅拌机容量200L以内 | 元 | 23040 | 114.66 | 0.0248 | 0.0035 | | 12 | 小型机具使用费 |  | 00300 | 1 | 16.0000 | 2.2400 | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

注：本定额适用于夜间施工,作业内容不包括防撞墙底部三角砼凿除及修补。

## 1-13机械拆除混凝土路缘石

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1）机械拆除各种体积较小混凝土缘石及垫层，2）人工清理现场。  单位：100m   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 机械拆除混凝土路缘石 | | | --- | --- | --- | --- | --- | --- | --- | --- | | 炮锤拆除路缘石（不含甲L型） | | |  | 基 价 | | 元 | 00401 |  | 836.77 | | | 其 中 | 人工费 | 元 | 00401 |  | 255.27 | | 材料费 | 元 | 00101 |  |  | | 机械费 | 元 | 00202 |  | 581.5 | | 1 | 人工 | 人工 | 工日 | 00100 | 96.5 | 2.6453  0.0187 | |  | 材料 |  |  |  |  |  | |  |  |  |  |  |  | | **2** | 机 械 | 履带式0.3m3以内炮锤 | 台班 | 21115 | 1257.09 | 0.4228  0.0017 | | 3 | 小型机具使用费 |  | 00300 | 1 | 50 | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |

注：本定额适用于夜间施工,现场不能存放机具、材料，白天恢复交通的情况。

## 1-14 1km旧路混凝土缘石装运

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工作内容：1km旧路混凝土缘石装运。  单位：100m3   | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 1km旧路缘石装运 | | | --- | --- | --- | --- | --- | --- | --- | --- | | （不含甲L型）路缘石 | | |  | 基 价 | | 元 | 00401 |  | 2485.09 | | | 其 中 | 人工费 | 元 | 00401 |  |  | | 材料费 | 元 | 00101 |  |  | | 机械费 | 元 | 00202 |  | 2485.09 | |  | 人工 |  |  |  |  |  | |  | 材料 |  |  |  |  |  | |  |  |  |  |  |  | | 1 | 机 械 | 2m3以内轮胎式装载机 | 台班 | 21030 | 859.46 | 1.3022 | | 2 | 环保运输车5t |  | 24062 | 600 | 2.2765 | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |

注：本定额适用于夜间施工,现场不能存放机具、材料，白天恢复交通的情况；按图示面积计算，含后背三角砼、垫层砼的体积。

## 第二章 阻车桩定额

章说明

（一）、本定额适用于北京市城市道路范围内的阻车桩养护工程。

（二）、本定额包括石球阻车桩养护、阻车桩养护（除石球阻车外）以及阻车桩年度经费定额共三个项目。

（三）、阻车桩养护维修工艺主要有两种：一种是直接摆放的方式，另一种是混凝土浇筑稳固的方式。

（四）、本定额根据阻车桩维修工艺编制；石球阻车桩养护定额适用于直接摆放的阻车桩的养护，阻车桩养护定额适用于采用混凝土浇筑稳固的阻车桩的养护。实际养护作业遇到石球阻车桩采用混凝土浇筑稳固方式，套用阻车桩养护定额。

（五）、本定额工作内容包括施工安全维护、拆除、安装阻车桩、浇筑混凝土、清理现场、整理堆放材料。

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 2-1 石球阻车桩养护 | | | | | | | | 工作内容：材料运输、现场施工准备、施工安全维护、拆除、修复、清理现场、废料运弃。 | | | | | | | |  |  |  |  |  |  | 单位：1根 | | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 阻车桩养护 | | | 1 | |  | 基 价 | | 元 | 00401 |  | 267.22 | | 其中 | 人工费 | 元 | 00101 |  | 200.00 | | 材料费 | 元 | 00202 |  | 0.84 | | 机械费 | 元 | 00303 |  | 66.38 | | 1 | 人工 | 人工 | 工日 | 00100 | 100.00 | 2.000 | | 2 | 材料 | 阻车桩 | 个 | 19131 | - | (1.00) | | 3 | 其他材料费 | 元 | 00200 | 1.00 | 0.840 | | 4 | 机械 | 电动三轮车 | 台班 | 24006 | 34.20 | 1.000 | | 5 | 小型机具使用费 | 元 | 00300 | 1.00 | 32.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 2-2 阻车桩养护（除石球阻车桩外） | | | | | | | | **工作内容** 材料运输、现场施工准备、施工安全维护、拆除、修复、清理现场、废料运弃。 | | | | | | | |  |  |  |  |  |  | 单位：1根 | | 顺 序 号 | 项目 | | 单位 | 代码 | 单价 （元） | 阻车桩养护 | | | 1 | |  | 基 价 | | 元 | 00401 |  | 251.39 | | 其 中 | 人工费 | 元 | 00101 |  | 200.00 | | 材料费 | 元 | 00202 |  | 15.22 | | 机械费 | 元 | 00303 |  | 36.16 | | 1 | 人工 | 人工 | 工日 | 00100 | 100.00 | 2.000 | | 2 | 材料 | C20混凝土 | m³ | 11091 | - | (0.048) | | 3 | 32.5级水泥 | t | 11010 | 378.00 | 0.015 | | 4 | 水 | m³ | 19060 | 9.22 | 0.058 | | 5 | 中（粗）砂 | m³ | 13200 | 127.00 | 0.02 | | 6 | 碎石 | m³ | 13190 | 140.00 | 0.039 | | 7 | 阻车桩 | 根 | 19131 | - | (1.00) | | 8 | 其他材料费 | 元 | 00200 | 1.00 | 0.481 | | 9 | 机械 | 电动三轮车 | 台班 | 24006 | 34.20 | 1.000 | | 10 | 小型机具使用费 | 元 | 00300 | 1.00 | 2.0 | |  2-3 阻车桩年度经费定额 单位：100根   | 序号 | 定额编号 | 项目名称 | 单位 | 定额单价 （元） | 定额人工费 （元） | 综合建议维修率（%） | 定额维修量 | 基价（元） | 其中：人工费（元） | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  | 阻车桩 |  |  |  | 5.95 |  | 4911.23 | 1190.37 | |  |  | 石材（A型）石球阻车桩 |  |  |  | 0.03 |  |  |  | | 1 | 1-1 | 石材A型阻车桩养护 | 根 | 887.22 | 200.00 |  | 0.03 | 29.67 | 6.69 | |  |  | 石材（B型）石柱阻车桩 |  |  |  | 2.99 |  |  |  | | 2 | 1-2 | 阻车桩养护 | 根 | 771.39 | 200.00 |  | 2.99 | 2304.19 | 597.41 | |  |  | 铸铁A型 |  |  |  | 2.23 |  |  |  | | 3 | 1-2 | 阻车桩养护 | 根 | 903.77 | 200.00 |  | 2.23 | 2014.64 | 445.83 | |  |  | 不锈钢A型 |  |  |  | 0.70 |  |  |  | | 4 | 1-2 | 阻车桩养护 | 根 | 801.39 | 200.00 |  | 0.70 | 562.72 | 140.44 | |  |  |  |  |  |  |  |  |  |  | | （1） | 直接工程费 | | 每年养护工程量×单价 | | | | | 4911.23 | | | （2） | 安全防护、文明施工措施费 | | 直接工程费合计×3.993% | | | | | 196.11 | | | （3） | 夜间施工增加费 | | 直接工程费合计×相应费率（中修0.705%，小修1.75%） | | | | | 34.62 | | | （4） | 规费 | | 人工费×43.9% | | | | | 522.57 | | | （5） | 企业管理费 | | [（1）+（2）+（3）]×13.84% | | | | | 711.65 | | | （6） | 利 润 | | [（1）+（2）+（3）+（5）]×7% | | | | | 409.75 | | | （7） | 税 金 | | [（1）+（2）+（3）+（4）+（5）+（6）]×10% | | | | | 678.59 | | | （8） | 小 计 | | （1）+（2）+（3）+（4）+（5）+（6）+（7） | | | | | 7464.52 | | | （9） | 监理费 | | （8）× 2.33 % | | | | | 173.92 | | | （10） | 咨询费 | | （8）× 0.8% | | | | | 59.72 | | | （11） | 不可预见费 | | （8）×5% | | | | | 373.23 | | | （12） | 综合单价 | | （8）+（9）+（10）+（11） | | | | | 8071.38 | | |

**主管单位：**北京市交通委员会路政局

**主编单位：**北京市道路工程造价定额管理站

主 编：赵德全

副 主 编：朱立荣 赵福玉

编写人员：李建国 王 稚 李河永 王妹瑶 田 涛 周 为 段春辉 林 漪

刘丹卉 李 运 杜啸雪 蔡雅静 张太迟 王庆敏 冀二霞 齐雅敬

李 萌 糜 毅

**鸣 谢**

北京七环技术咨询有限公司、北京中路安畅工程技术有限公司参与了本定额的编写过程，并给予了大力的支持。

特此鸣谢。