

## 西藏扎墨公路嘎隆拉特长隧道建设技术

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## CONSTRUCTION TECHNOLOGY OF GALONGLA EXTRA-LONG TUNNEL ALONG ZHAMU—MOTUO HIGHWAY IN TIBET

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**摘要** 西藏扎墨(扎木—墨脱)公路嘎隆拉隧道所处建设环境极为特殊,地形、地质、地震、气象条件与其他高原寒区隧道项目相比,极具代表性。隧道的勘察设计将卫星遥感、现场勘测、室内试验、现场试验、理论分析、数值模拟以及实时监测等方法有机融合,从环境保护、生态平衡和绿色发展的理念出发,提出高海拔、高烈度地震区隧道工程冻害机制与防寒保温技术和高烈度地震区隧道工程震害及其抗震技术。所提出的现代冰川地区公路特长隧道勘察、高原寒区地层防冻及高烈度震区隧道抗震设计研究成果,对青藏高原等寒区隧道的修建具有十分重要的指导意义。

**关键词:** 隧道工程 特长隧道 现代冰川地区隧道 防寒保温 抗震设计

**Abstract:** The environment is very special at Galongla extra-long tunnel of Zhamu—Motuo highway in Tibet. The terrain, geology, earthquake and meteorological conditions in this region are representative compared with other cold plateau tunnels. The survey and design of this tunnel are combined with satellite remote sensing, in-situ survey, laboratory and field tests, theoretical analysis, numerical simulation, real-time monitoring and so on. From the idea of environmental protection, ecological balance and green development, several key techniques are proposed, that is, (1) frost heave mechanism and insulation technology in cold region tunnel; and (2) earthquake damage mechanism and aseismic technology in high intensity earthquake zone. These proposed key techniques have great significance for tunnel construction in Qinghai—Tibet Plateau with modern glacier.

**Keywords:** tunnelling engineering extra-long tunnel tunnel in modern glacier area insulation aseismic design

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