कोंकण रेलवे कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
KONKAN RAILWAY CORPORATION LTD.
(A Government of India Undertaking)

सादर सेवा

मुख्यालय:यूएसबीआरएलपरियोजना
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कॉर्पोरेट पहचान संख्या/Corporate Identity Number: U35201MH1990GOI223738

No.KR/PD/JK/CE-D/Corres. K.S.Rao/2024-01/05 **Date: 24/11/2025**
By E-mail

Work Done Certificate

This is to certify that **M/s. KSR Geotechnical Testing and Research Solutions Private Limited** located at Plot No. 1276, Sector-38, Phase-I, HSIIDC Industrial Estate, Rai, Sonipat (Haryana) – 131029, has provided geotechnical consultancy and expert opinion services for the following project:

"Consultancy Services for Slope Stabilization Scheme at T48P1 and Expert Opinion and Validation of Design of Slope Stabilization Scheme at T42P2 under the Udhampur–Srinagar–Baramulla Rail Link (USBRL)Project, Jammu & Kashmir."

W.O. No: KR/PD/JK/CE-D/Corres. K.S.Rao/2024-01/01,dtd:12/07/2024

Scope of Services Delivered:

- Technical site visit from 30.05.2024 to 31.05.2024
- Geological, geotechnical assessment of site location
- Design and consultation for stabilization measures at Tunnel T48P1 (Portal 1)
- Validation of stabilization scheme at Tunnel T42-P2, including micro piling, shotcrete, rock bolting, and anchoring
- Crack investigation and evaluation of grouting at Tunnel T42-P2
- Geotechnical characterization of collected soil and rock samples
- Slope stability analyses by using geotechnical software tools
- Submission of comprehensive design report with remedial support measures

The services rendered are documented in **Report No.: KSR/C/24/KRCL-USBRL/1002 dated 06.10.2024,** the reports collectively capture the findings, analysis, support systems and recommendations aligned with the project scope.

We appreciate the expertise and professional approach demonstrated by **Prof. K.S. Rao,** Director-KSR Geotechnical Testing and Research Solutions Pvt. Ltd. in addressing the complex slope-related issues at T48 and crack formation challenges within the tunnel 42 during this project.

(R R Mallick)
Deputy Chief Engineer/Design

Copy to:-

CE/Co-ordination : For your kind information please.